

SDMS US EPA REGION V

COLOR - RESOLUTION - 3

IMAGERY INSERT FORM

Multiple pages of this document include color or resolution variations and may be illegible in SDMS due to bad source documents. Unless otherwise noted, these pages are available in monochrome. (The source document page(s) are more legible than the images.) The original document is available for viewing at the Superfund Records Center.

SITE NAME	SAUGET AREA 1
DOC ID #	150584
DOCUMENT VARIATION	<u> X </u> COLOR OR <u> </u> RESOLUTION
PRP	
PHASE	SAS
OPERABLE UNITS	
LOCATION	Box #__ Folder #__ Subsection__
PHASE (AR DOCUMENTS ONLY)	<u> </u> Remedial <u> </u> Removal <u> </u> Deletion Docket <u> </u> Original <u> </u> Update # <u> </u> Volume <u> </u> of <u> </u>
COMMENT(S) PHOTOGRAPHS	

Superfund Site Area #1



CERCLA Screening Site Inspection Report

Volume 1 of 2



Illinois Environmental
Protection Agency
P.O. Box 19276
Springfield, IL 62794-9276

Site Priority Status Recommendation

The author of this report recommends that the Sauget Sites Area #1 be assigned a high priority status rating. The sites should be advanced to formal scoring under the Hazard Ranking System (HRS) for addition to the National Priority List (NPL). The recommendation is a result of past sample results, as well as the findings of the CERCLA Screening Site Inspection (SSI) conducted at Sauget Sites Area #1.

In 1989, the Area #1 Sites were scored by Ecology and Environment, Incorporated (E&E) for the Illinois Environmental Protection Agency (IEPA). Sites G, I/H, L together with Creek Segments A and B, scored a 34.75, however, the untimely submittal prevented the Sites from being listed due to the pending changes in the HRS.

The sample results and other findings of the Expanded Site Investigation Dead Creek Project Sites at Cahokia/Sauget, Illinois conducted by E&E for IEPA, contains pertinent data on the Area #1 Sites to facilitate HRS scoring. The results of the CERCLA SSI conducted by Illinois EPA, expanded on this data.

Documented groundwater contamination exists at the Area #1 Sites. The contaminants include volatile and semi-volatile organic hydrocarbons, pesticides and inorganic compounds. The groundwater contaminants show attribution to the sites via on-site soil sample results. There is proof that a small percent of the nearby population utilize shallow alluvial wells for drinking. During the June, 1991 CERCLA SSI for the nearby Sauget Sites Area #2, a non-community well serving over 25 people was sampled. PT's Show Club well, located approximately 1800 feet north of the Area #2 sites and 3400 feet northeast of the Area #1 sites, was found to contain chloroform, a compound also detected in the Area's #1 and #2 soil and groundwater samples. The levels of chloroform were below USEPA's Maximum Contaminants Levels (MCL's) which figures for a level II contaminant in the HRS scoring process.

Surface water is subject to contamination from the Area #1 Sites. The sediment sample collect at the point where Dead Creek enters the Old Prairie Dupont Creek is evidence that surface waters have been impacted. Surface water targets include fishery use, wetlands, recreational areas and a Bald Eagle rook. The on-site wetlands in Creek Segment F, were found to be contaminated during the CERCLA SSI. Mississippi River fish sampling results from the US Food and Drug Administration (FDA) and EPA have confirmed bioaccumulation of Area #1 and #2 contaminants in the tissue of fish caught adjacent to the Sites.

Soil exposure at the Area #1 sites presents a potential

human health risk. Site H and the unfenced segments of Dead Creek contain areas of surface soil contamination, and are accessible to whoever is ignorant to the conditions of these sites.

An air release has been documented at the Sites. PCB,s, 2-nitroaniline, pyrene, fluorene and naphthalene were detected in the air samples collected during E&E's investigation of the Dead Creek Project Sites. There are two schools and residential areas within a quarter mile of the Sites. There are also workers on-site and in areas between sources at the Sites.

TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
1	INTRODUCTION.....	1-1
2	SITE BACKGROUND.....	2-1
	2.1 INTRODUCTION.....	2-1
	2.2 SITE DESCRIPTIONS.....	2-1
	2.3 SITE HISTORIES.....	2-2
	2.4 PREVIOUS INVESTIGATIONS.....	2-8
	2.5 APPLICATION OF OTHER STATUTES.....	2-19
3	SCREENING SITE INSPECTION PROCEDURES.....	3-1
	3.1 INTRODUCTION.....	3-1
	3.2 SITE REPRESENTATIVE INTERVIEW.....	3-1
	3.3 RECONNAISSANCE INSPECTION.....	3-1
	3.4 SAMPLING PROCEDURES.....	3-2
	3.5 GROUNDWATER SAMPLING PROCEDURES.....	3-4
	3.6 SOIL/SEDIMENT SAMPLING PROCEDURES.....	3-5
	3.7 DECONTAMINATION PROCEDURES.....	3-8
	3.8 ANALYTICAL RESULTS INTRODUCTION.....	3-8
	3.9 KEY SAMPLE RESULTS.....	3-8
4	SOURCES OF CONTAMINATION.....	4-1
	4.1 INTRODUCTION.....	4-1
	4.2 SITE G.....	4-1
	4.3 SITES H. & I.....	4-3
	4.4 SITE L.....	4-7
	4.5 SITE M.....	4-8
	4.6 SITE N.....	4-10
	4.7 DEAD CREEK SEGMENT A.....	4-12
	4.8 DEAD CREEK SEGMENT B.....	4-14
	4.9 DEAD CREEK SEGMENTS C-F.....	4-14
5	DISCUSSION OF MIGRATION PATHWAYS.....	5-1
	5.1 INTRODUCTION.....	5-1
	5.2 GROUNDWATER.....	5-1
	5.3 SURFACE WATER.....	5-3
	5.4 AIR.....	5-5
	5.5 ON-SITE EXPOSURE.....	5-5
6	BIBLIOGRAPHY.....	6-1

<u>Figure</u>		<u>Page</u>
2-1	STATE OF ILLINOIS LOCATION MAP.....	2-3
2-2	AIR SAMPLE LOCATIONS 07/16/87.....	2-16
2-3	AIR SAMPLE LOCATIONS 07/17/87.....	2-17
3-1	SITE FEATURES.....	3-3
3-2	SOIL/GROUNDWATER SAMPLE LOCATION MAP.....	3-6
4-1	SITE G AND NORTHERN CS B.....	4-2
4-2	SITE L, H AND NORTHERN CS B.....	4-4
4-3	SITE M, SOUTHERN CS B AND NORTHERN CS C.....	4-9
4-4	SITE N AND CS C.....	4-11
4-5	SITE I AND CS A.....	4-13
4-6	CS C THROUGH F.....	4-15

<u>Table</u>		<u>Page</u>
2-1	AGGREGATED SOURCES AT SAUGET SITES AREA #1.....	2-2
2-2	SAUGET AREA GENERATORS.....	2-7
2-3	SOIL GAS SURVEY RESULTS.....	2-10
2-4	MAXIMUM CONCENTRATIONS OF SELECTED CONTAMINANTS IN SOILS AND SEDIMENTS.....	2-12
2-5	MAXIMUM CONCENTRATIONS OF SELECTED CONTAMINANTS IN GROUNDWATER.....	2-14
2-6	AIR SAMPLE RESULTS FROM SITE G AND CS-B.....	2-18
3-1	GROUNDWATER SAMPLE DESCRIPTIONS.....	3-4
3-2	SOIL/SEDIMENT SAMPLE DESCRIPTIONS.....	3-7
3-3	KEY SAMPLE RESULTS FROM IEPA COLLECTED SAMPLES.	3-9
5-1	TARGET POPULATION CALCULATION.....	5-6

<u>APPENDIX</u>	<u>Page</u>
A	GROUNDWATER 4-MILE RADIUS MAP..... A-1
B	SURFACE WATER ROUTE MAP..... B-1
C	USEPA FORM 2070-13..... C-1
D	TARGET COMPOUND LIST..... D-1
E	WELL LOGS..... E-1
F	IEPA SITE PHOTOGRAPHS..... F-1
G	FLOOD INSURANCE RATE MAPS..... G-1
H	SENSITIVE AREAS FORM..... H-1
I	ANALYTICAL RESULTS (see volume 2 of 2)..... I-1
J	PRIVATE WELL SAMPLE FORMS..... J-1

1. INTRODUCTION

On January 24, 1991, the Illinois Environmental Protection Agency's (IEPA) Pre-Remedial Unit was tasked by the United States Environmental Protection Agency (USEPA) to conduct a Screening Site Inspection (SSI) of Sauget Sites Area #1.

Environmental and human health concerns arise from many problem sites and potential areas of contamination in Sauget and northern Cahokia. Over time, the USEPA has added these sites to the Comprehensive Environmental Response Compensation and Liability Act's Information System (CERCLIS), in response to requests for discovery by IEPA and other agencies. The sites have been evaluated in the past by Preliminary Assessments (PA's) conducted by IEPA and USEPA contractors. Although the Area #1 sites have been previously scored by an IEPA contractor, the Sites were not proposed for the National Priorities List (NPL) because of the forthcoming Hazard Ranking System (HRS) model changes. IEPA's Pre-Remedial Unit prepared an SSI work plan for Sauget Sites Area #1 that was submitted to USEPA Region V in March, 1991. The sampling portion of the SSI was conducted in June, 1991 when personnel from the Agency's Pre-Remedial Unit collected eighteen samples (five groundwater and thirteen soil and sediment).

The purpose of an CERCLA SSI have been stated by USEPA in a directive outline of Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A Screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA (Resource Conservation and Recovery Act).... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (USEPA 1988)

The Region V offices of the USEPA have also requested that the IEPA identify sites during the SSI that may require removal action to remediate an immediate human health and/or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section includes information obtained over the course of the formal CERCLA SSI investigation, as well as previous IEPA, USEPA and local industry sponsored investigations of the Sauget Sites Area #1.

2.2 SITE DESCRIPTIONS

Sauget Sites Area #1 (also referred to as Area #1 Sites or just Sites for the purposes of this report) include at least 9 primary sources of contamination in and adjacent Dead Creek in Sauget and northern Cahokia. The nine sources are contained within eight aggregated Sites include four landfills, three lagoons and contaminated segments of Dead Creek. A 4-mile radius map of these Sites can be viewed in Appendix A. The following index lists the eight common site names, followed by the name of each site as entered on CERCLIS and the corresponding ILD number.

<u>Common Name</u>	<u>CERCLIS Name</u>	<u>ILD Number</u>
Site G	Dead Creek Area G	ILD 981953623
Sites I/H	Sauget Monsanto Landfill	ILD 980614176
Site L	Waggoner Trucking Company	ILD 984809269
Site M	H.H. Hall Excavation Pit	ILD 984809251
Site N	H.H. Hall Construction Company	ILD 982073603
CS A	Dead Creek Segment A	ILD 984809277
CS B	Dead Creek	ILD 980792006
CS C-F	Dead Creek Segments C through F	ILD 984809285

A summarized source description for each of the Area #1 Sites is presented in the following table. The map on the following page shows the Sites location with respect to the State of Illinois.

Table 2-1

Aggregated Sources at Sauget Sites Area #1

<u>Site Name</u>	<u>Source Type</u>	<u>Source Size</u>	<u>Years of Operation</u>	<u>Owner at that Time</u>	<u>Observed Contamination</u>
G	Landfill	approx. 4.5 ac.	1952-late 1970's	Leo Sauget Wiese Eng.	Soil, GW Air
I/H	connected Landfills	approx. 24 ac.	1931-1957 (H)1981	Leo Sauget J. Tolbird	Soil, GW
L	2 Lagoons	approx. 0.17 ac.	1975-1981	Harold Waggoner Ruan Trucking	Soil, GW
M	Lagoon	1.36 ac.	1950's-unk.	H.H. Hall	Soil, GW
N	Landfill	approx. 4-5 ac.	1950's-unk.	H.H. Hall	Soil
CS A	Contaminated Sediment	1700 ft.	early 1900's-	Leo Sauget	*Soil, GW
CS B	Contaminated Sediment	1800 ft.	early 1900's-	Village Residents	Soil, GW Air
CS C-F	Contaminated Sediment	15000 ft.	early 1900's-	Village Residents	Soil

Abbreviations: ac.-acre(s), unk.-unknown, approx.-approximately, Co.-Company, GW-Growndwater, Rt.-Route, SW-Surface Water, *-remediated as of December, 1990.

A comprehensive description of each of the Sites is contained within Section 4 (Sources of Contamination). Each site is depicted on the maps in Section 4.

2.3 SITE HISTORIES

Waste disposal began in Area #1 with the purchase of property at Site H for the disposal of hazardous wastes

Figure 2-1



generated by local industries. According to title records, Mr. Leo Sauget began acquiring property for disposal purposes as early as December, 1931 (see purchase of Lot 128 of Cahokia Commonfields). According to aerial photo's (1937), disposal first occurred in the northern portion of Site H and proceeded in a southeasterly direction. As the disposal area on Lot 128 was used up, operations were moved to the north (into Site I) with Mr. Sauget's purchase of Lot 127 (Cahokia Commonfields) in April, 1943.

The Village of Monsanto purchased a strip of Lot 210 (Third Subdivision of Cahokia Commonfields) in August, 1948 for the construction of Midwest Avenue (now Queeny Avenue). As verified by aerial photos, this road construction marked a period after which disposal activities intensified in the southern portion of Site I (Lot 127). Mr. Leo Sauget acquired portions of certain lots (County Tax parcels 1-26-401-003 and 1-26-401-004) also known as Site G in July, 1952. Similar waste disposal practices followed at this site.

As for additional disposal at Site I, Mr. Leo Sauget's son, Mr. Paul Sauget purchased Lot 126 in April 1930 and turned the title over to Illinois State Trust in July, 1948. According to Aerial photos, disposal would have began in the northern-most landfill shortly after this time. Mr. Leo Sauget took over the property in December, 1952 and evidently continued waste disposal practices until 1957 when he began using Area #2 (Site R landfill) for the disposal of Monsanto wastes. A "Notification of Hazardous Waste Site" form was

submitted by two Monsanto plants for a landfill at a Falling Springs address. Indications were given that varying amounts of chemical wastes were disposed of until 1957.

In November of 1959, Mr. Leo Sauget obtained a certificate of authority to transact business in Illinois under the name "Industrial Salvage and Disposal, Incorporated" with Leo, Paul and Vincent Sauget serving on the board of Directors. The name was changed to "Sauget & Company" in November, 1966. The fact that Mr. Leo Sauget's business was not incorporated until 1959 suggests that most of his business was done on a contractual basis. Leo and Paul Sauget then solicited other hazardous waste generators/transporters after their business was organized.

Harold Waggoner & Company (a hazardous/special waste hauler) purchased property south of Site H in 1963. The purchase included County Tax parcels 1-35-200-013, -031, -033, -034, -035, -036. Waste disposal began at Site L in 1971 after IEPA caught the company dumping wastewater into CS B. The business operated two surface impoundments which were used to dispose of hazardous waste products and truck washings from its hauling operations. In 1975, the property was transferred to Harold Waggoner, who in turn sold it to Ruan Trucking Company in 1981. Ruan reportedly continued this disposal practice in parcels 1-35-200-013 and -031 (Site L). Upon Ruan's purchase of Waggoner's entire property, parcels 1-35-200-033, -034, -035 and -036 were sold to Tony Lechner (April, 1982) and eventually to current owner,

L. Kelley Paving and Construction Company in December, 1984.

Disposal at Site G may have continued under Industrial Salvage Incorporated through May, 1966 when Mr. Leo Sauget sold the property to its current owner, Wiese Engineering. There may also be private ownership of certain portions of Site G. All Site H and I property was sold by Mr. Leo Sauget to Roger's Cartage Company in two transactions (December, 1965 and April, 1968). Roger's Cartage apparently used the property at Site I for parking until it was sold to Cerro Corporation in the transactions of May, 1967 and June, 1968. Cerro Copper Products Company now owns all portions of Site I. The Site H portions of Roger's Cartage property were transferred to the current owner, Mr. James Tolbird in 1979.

Two former sand pits that lie alongside Dead Creek are Sites M and N. These pits were owned by H.H. Hall Construction Company during the times of disposal. The age of the pits dates back to the 1940's. Although unsubstantiated, these pits were recipients of local wastes as evidenced by sample data and historical aerial photographs.

The Village of Sauget was and still is home to many hazardous waste generators and transporters. Most of the Sauget generators and transporters of hazardous waste are listed in Table 2-2 on the following page.

Table 2-2

Local Sauget Generators

American Zinc (later Big River Zinc followed by Amax Zinc)
Darling Fertilizer (defunct)
Federal Chemical (later part of Krummrich Plant)
Industrial Salvage and Disposal Company (later Sauget and
Company)
Lewin Metals (later Cerro Copper Products)
Lubrite Refining (later Socony Vacuum, followed by Mobil Oil)
Midwest Rubber Reclaiming Company
Monarch Petroleum (later Sunoco, followed by Mineweld)
Monsanto Chemical Company - Krummrich Plant
Sterling Steel Castings
Union Electric Power Plant (defunct)
Rogers Cartage Company
US Chemical Warfare Service (later Monsanto then Edwin Cooper
and now Ethyl Corporation)
Waggoner Trucking (later Ruan Transportation Corporation)
Wiese Planning and Engineering, Incorporated

Prior to the development of an interceptor sewer line to the Mississippi River, in the late 1930's, the industries closest to Dead Creek would let their waste flow into the intermittent creek. Even after a 36 inch sewer line was built to carry wastes to the Mississippi River, overflows, created by flooding or peaks in waste output, were routed into Dead Creek (Sanitary Water Board maps). In 1942, the Monsanto (Sauget) village engineer admitted that Dead Creek would be routinely used for waste discharge. Residents located between Sauget and Cahokia were awarded \$4,000 because of complaints about Dead Creek disposal. The local industries paid despite their claims that the discharges would be beneficial since the great volume of water would flush settled solids from Dead Creek into the Mississippi River (1942 Report to SWB).

Additional sources of effluent have been found entering

Dead Creek (Sanitary Water Board maps). These include outfalls found during the 1990, 13 million dollar clean-up of Dead Creek Segment A by Cerro Copper Products and an 18 inch line from Midwest Rubber Reclaiming. This line discharged wastewater into CS B as did the overflow from the Waggoner Trucking Company lagoons.

As local industry expanded, so did the hazardous and special waste haulers in the area. Mr. Leo Sauget's Industrial Salvage and Disposal Company (later Sauget and Company) used the slag and fly ash from the nearby Union Electric Power Plant for landfill cover materials. Waggoner Trucking Company also disposed of wastes from local industries. IEPA observed a Waggoner Trucking Company truck dumping wastes directly into CS B. Later, the company was forced to build the two lagoons at Site L. The lagoons were designed to overflow into Dead Creek. Another hazardous waste hauler used by the area generators was Rogers Cartage, owned by Mr. James Tolbird. Mr. Tolbird purchased the filled Site H, where he may have deliberately dumped liquid wastes (1981 aerial photograph).

2.4 PREVIOUS INVESTIGATIONS

In 1980, USEPA conducted a thermal infrared study of the E. St. Louis and Sauget area (February, 1981, Thermal Infrared Survey of Hazardous Waste Sites East St. Louis, Illinois TS-AMD-8128). The pictorial gives a visual account of thermal discharges in Dead Creek as well as leachate seeps entering the creek from Sites I, G and N. Discharges from

the ponded water at Site M are more obvious with the eight foot opening into at CS B.

Also in 1980, IEPA conducted a hydrogeologic study of the Dead Creek Area. This included the installation of a dozen monitor wells and the collection of soil and sediment samples. The study revealed widespread soil and groundwater contamination of organics and inorganics in the area surrounding the northern portion of Dead Creek.

The hydrogeologic study prompted IEPA to try and place the sites located around the northern portion of Dead Creek on the NPL. The 1984 scoring package was rejected because more documented information was needed for the Area #1 Sites.

Documented Area #1 scoring information was gained through IEPA's 1985 contract with Ecology and Environment, Incorporated (E&E). E&E investigated 12 suspected uncontrolled hazardous waste sites and the six segments of Dead Creek in Sauget and Cahokia. The investigation included the Area #1 Sites (with the segments of Dead Creek) and the Area #2 Sites. The IEPA financed investigation involved geophysical surveys, soil gas surveys, geological borings with monitor well installation, and samples of soil, sediment, surface water, groundwater and air.

E&E's geophysical survey included the use of magnetometry and electromagnetics (EM). Magnetometry aids in the detection of buried ferrous materials such as drums, while EM helps identify subsurface materials and possible contaminant plumes (some contaminants produce an increase in

free ion concentration in soil and groundwater). A fluxgate gradiometer magnetometer was used for the magnetometry work, as it provided less surface noise interference. The Area #1 surveys took place at Sites G, H, and L. Intense anomalies were observed at Sites G and H for both surveys, however Site L's EM survey found no significant anomalies and magnetometry proved inconclusive due to interferences from heavy machinery.

Following the geophysical work, E&E conducted a soil gas survey. Stainless steel pipes were hammered into the ground to three foot depth. Air was then drawn through a teflon connector and into a flame ionization, organic vapor analyzer (OVA). The following table shows that volatile organic soil gases were found at each Site/Segment.

Table 2-3

Soil Gas Survey Results

<u>Site</u>	<u># of Hits Per # of Samples</u>	<u>Hit Sample Level in mg/l of Air</u>
G	2/11	>100
H	6/12	>1000
CS A/I	6/19	>1000
CS B	2/7	>100
CS C	1/3	>3 x bkg.
L	3/10	>1000
M	2/6	>3 x bkg.
N	5/8	>3 x bkg.
N	2/8	>1000

bkg.-background sample location, >-greater than, x-times, mg/l-milligrams per liter.

After viewing historic aerial photographs and conducting the geophysical and soil gas surveys, E&E continued the Dead Creek area investigation with geologic borings and monitor

well installation. The boring logs show that, in many instances, the geologic profiles include waste as part of the subsurface characteristics. What follows are examples of the waste, explicitly described in the boring logs: {G-9, 11-12.5 feet- WASTE consisting of black fibrous material with pink grease-like globules (wet). Pink globules float on water; H-4, 18.5-20 feet- WASTE same as above (black sludge with small spherical beads, broken glass, paper products), including a greenish-yellow jelly-like material. Wet with an oil or tar like substance adhering to the spoon. 23.5-25 feet- WASTE consisting of multi-colored (red, green, brown, black and white) materials including a chunk of a waxy white substance that breaks into flakes; I-6, 21-22.5 feet- WASTE consists of various debris including black oily stained layered cardboard, paint pigments, burlap cloth and a yellow sludge-like substance. Wet.}. The average thickness of the waste found at the landfill sites (G, H/I) ranges 15-25 feet thick.

Samples were collected from the wastes encountered during the drilling. Samples were also collected from the surface soil/sediments and monitor wells after proper development. The following pages summarize the maximum soil/sediment and groundwater concentrations of the contaminants found at the Area #1 Sites. Most of the Dead Creek samples were collected from the northern segments (CS A, B and C) with only a few samples taken in CS D and none collected from CS E or F.

Table 2-4

SAUGET SITES AREA #1: SITES G, H, I, L, M, N, CREEK SEGMENTS A, B, C

MAX SOIL/SED CONC AT:	G	H	I	L	M
VOLATILES (ppm)					
1,2-Dichloroethene(total)	0.7	J	--	20	--
Chloroform	11.628		0.192	--	--
1,2-Dichloroethane	0.4	J	0.012	J	--
2-Butanone (MEK)	12.286		--	--	--
1,1,1-Trichloroethane	--		1.692	--	--
Trichloroethene	3.846		0.01	J	3.81
Benzene	45.3		61.29	24.13	4.2
4-Methyl-2-Pentanone	6		7.842	J	4.158
Tetrachloroethene	58.571		5.645	5.265	--
Toluene	117.647		76.45	77.91	27
1,1,2,2-Tetrachloroethane	0.581	J	--	--	--
Chlorobenzene	538.462	E	451.613	E	126.9
Ethylbenzene	16.923		12.788	15.07	0.04
Xylene(total)	41.538		23.63	19.18	0.67
SEMIVOLATILES (ppm)					
Phenol	177.8		0.4	J	27
2-Chlorophenol	8.8	J	--	--	2.2
1,3-Dichlorobenzene	240	J	240	J	70
1,4-Dichlorobenzene	22000		31000	E	1800
1,2-Dichlorobenzene	--		19000	E	140
Methylphenol	--		--	--	1.1
2,4-Dichlorophenol	141.1	J	741.9	--	--
1,2,4-Trichlorobenzene	120	J	7600	8300	E
Naphthalene	5400		2300	510	0.53
4-Chloroaniline	--		--	--	--
2-Methylnaphthalene	37	J	350	170	1.1
2,4,6-Trichlorophenol	0.49		612.9	--	--
2-Nitroaniline	220		--	--	--
4-Nitrophenol	1000		--	--	--
Dibenzofuran	0.9	J	800	5.6	--
Fluorene	--		480	35	--
4-Nitroaniline	--		1800	--	--
N-Nitrosodiphenylamine	--		--	100	J
Hexachlorobenzene	--		--	1300	--
Pentachlorophenol	4800		--	190	58
Phenanthrene	51	J	2100	100	1.8
Anthracene	--		680	200	--
Fluoranthene	45		1330	200	0.45
Pyrene	85		660	49	J
Benzo(a)anthracene	--		--	6.7	0.91
Chrysene	39	J	--	--	0.2
Benzo(b)fluoranthene	--		--	32	J
Benzo(k)fluoranthene	10		--	--	--
Benzo(a)pyrene	22	J	270	2.5	--
Indeno(1,2,3-cd)pyrene	5.2		--	--	--
Dibenz(a,h)anthracene	5.4		--	--	--
Benzo(g,h,i)perylene	1.5	J	--	--	--
PESTICIDES/PCB'S (ppm)					
4,4'-DDE	0.3		0.78	--	--
4,4'-DDD	--		0.43	30	--
4,4'-DDT	--		0.92	4.3	--
Toxaphene	--		--	490	--
Aroclor-1242	--		--	--	--
Aroclor-1248	27300	C	--	--	210
Aroclor-1254	29000	C	--	--	81
Aroclor-1260	21000	C	18000	340	J
INORGANICS (ppm)					
Arsenic	39	*	388	R	14
Barium	169000		3242	3603	197
Cadmium	46		294	13	6
Chromium	985		100	731	16
Cobalt	89		105	140	9
Copper	5500		2444	630	141
Lead	18400	*	1150	* 23330	106
Mercury	34.3		3.9	3.2	0.1
Nickel	382		15097	2405	2392
Selenium	4.1		2	--	--
Vanadium	19400		95	553	25
Zinc	67800		39516	6329	166

SAUGET SITES AREA #1: S

Table 2-4 (cont.)

MAX SOIL/SED CONC AT:	N	CS A	CS B	CS C	
VOLATILES (ppm)					
1,2-Dichloroethene(total)	--	--	--	--	
Chloroform	--	--	--	--	
1,2-Dichloroethane	--	--	--	--	
2-Butanone (MEK)	--	--	14	--	
1,1,1-Trichloroethane	--	--	--	--	
Trichloroethene	--	--	--	--	
Benzene	--	--	0.087	J	--
4-Methyl-2-Pentanone	0.004	J	0.22	J	--
Tetrachloroethene	--	--	--	--	
Toluene	--	--	0.81	--	
1,1,2,2-Tetrachloroethane	--	--	--	--	
Chlorobenzene	--	0.048	J	5.2	--
Ethylbenzene	--	--	3.6	--	
Xylene(total)	--	--	0.99	--	
SEMIVOLATILES (ppm)					
Phenol	--	--	--	0.58	J
2-Chlorophenol	--	--	--	--	
1,3-Dichlorobenzene	--	0.55	J	--	0.11 J
1,4-Dichlorobenzene	--	2.9	--	220	0.69 J
1,2-Dichlorobenzene	--	0.48	--	17	J
Methylphenol	--	--	--	--	
2,4-Dichlorophenol	--	--	--	--	
1,2,4-Trichlorobenzene	--	1.5	J	5.4	J
Naphthalene	--	0.13	J	9.5	J
4-Chloroaniline	--	1	J	--	--
2-Methylnaphthalene	--	0.45	J	8.4	J
2,4,6-Trichlorophenol	--	--	--	--	
2-Nitroaniline	--	--	--	--	
4-Nitrophenol	--	--	2.6	J	--
Dibenzofuran	--	--	--	--	
Fluorene	--	--	3.9	J	0.37 J
4-Nitroaniline	--	--	--	--	
N-Nitrosodiphenylamine	--	0.22	J	--	--
Hexachlorobenzene	--	1.1	J	--	--
Pentachlorophenol	--	0.8	J	0.945	--
Phenanthrene	0.43	0.19	J	15	J
Anthracene	--	--	--	--	0.5 J
Fluoranthene	0.68	0.6	J	11	J
Pyrene	0.55	1.4	J	13	J
Benzo(a)anthracene	0.26	J	--	0.43	J
Chrysene	0.28	J	1.7	J	1.2 J
Benzo(b)fluoranthene	0.29	J	1	J	3.4 J
Benzo(k)fluoranthene	--	--	--	1.5	J
Benzo(a)pyrene	0.21	J	0.54	J	1.8 J
Indeno(1,2,3-cd)pyrene	--	--	0.57	J	1.4 J
Dibenz(a,h)anthracene	--	--	0.96	J	1.8 J
Benzo(g,h,i)perylene	--	--	--	0.39	J
PESTICIDES/PCB'S (ppm)					
4,4'-DDE	--	--	--	--	
4,4'-DDD	--	--	--	--	
4,4'-DDT	--	--	--	--	
Toxaphene	--	--	--	--	
Aroclor-1242	--	--	--	--	
Aroclor-1248	--	21	C	480	C
Aroclor-1254	--	71	C	141	C
Aroclor-1260	--	24	C	66	C
INORGANICS (ppm)					
Arsenic	3	* 76	R	21	33 R
Barium	130	732		17300	1700
Cadmium	--	31		36	42
Chromium	8	206		153	68
Cobalt	4	27		11	10
Copper	10	11400	*	15300	* 6640 *
Lead	34	2030		1480	975
Mercury	9	5.62		1.68	2.81
Nickel	11	765	R*	1520	R 1290 R
Selenium	--	3.3		4.1	2.5
Vanadium	--	25		48	36
Zinc	65	3420		11900	15600

SAUGET SITES AREA #1: SITES G, H, I, L, M

Table 2-5

MAXIMUM GROUNDWATER CONC. AT:	G	H	I	L	M
VOLATILES (ppb)					
Vinyl Chloride	---	---	790	---	---
1,2-Dichloroethane (total)	110	---	640	---	---
1,1-Dichloroethane	---	---	10	---	---
Carbon Disulfide	---	---	---	---	3
Chloroform	9	3000	110	J 730	2
1,1-Dichloroethane	---	---	120	---	---
1,2-Dichloroethane	480	---	---	---	---
2-Butanone (MEK)	560	---	---	---	---
1,1,1-Trichloroethane	51	J	---	---	---
Trichloroethene	800	---	270	---	---
Benzene	4100	4300	1400	150	---
4-Methyl-2-Pentanone	2200	3600	230	J 270	B
Tetrachloroethene	420	---	470	---	---
Toluene	7300	7300	740	790	B 1
1,1,2,2-Tetrachloroethane	---	---	---	---	---
Chlorobenzene	3100	11000	3100	---	---
Ethylbenzene	840	210	190	---	4
Styrene	---	---	---	---	2
Xylene (total)	400	120	J 58	---	---
SEMIVOLATILES (ppb)					
Phenol	30000	---	1800	150	---
2-Chlorophenol	1900	---	370	150	---
1,3-Dichlorobenzene	---	---	110	---	---
1,4-Dichlorobenzene	570	---	910	---	---
1,2-Dichlorobenzene	200	J	220	J	---
Benzyl alcohol	8600	---	350	---	---
Methylphenol	---	---	---	---	---
2-Methylphenol	810	---	76	6	J
4-Methylphenol	9006	---	350	75	---
N-nitroso-di-n-propylamine	---	800	---	---	---
2,4-Dimethylphenol	4300	---	---	---	---
Benzoic Acid	15000	E	---	---	---
Bis(2-chloroethoxy)methane	7300	---	2900	---	---
2,4-Dichlorophenol	480	J	1000	---	---
1,2,4-Trichlorobenzene	1900	---	2700	---	---
Naphthalene	18000	---	230	---	---
4-Chloroaniline	---	30	15000	E 60	---
4-chloro-3-methylphenol	---	---	140	J	---
2-Methylnaphthalene	---	---	9	J	---
2,4,6-Trichlorophenol	350	---	290	---	---
Dimethylphthalate	---	8	J	---	---
Dibenzofuran	---	6	J	---	---
Diethylphthalate	---	22	J	---	---
4-Chlorophenyl-phenylether	---	20	J	---	---
Fluorene	---	25	J	---	---
N-Nitrosodiphenylamine	---	800	---	---	---
Pentachlorophenol	6300	2400	650	---	---
Phenanthrene	---	15	J	---	---
Benzo(a)anthracene	32	---	---	---	---
Chrysene	6	J	---	---	---
Bis(2-ethylhexyl)phthalate	24	24	J	---	---
Di-n-octyl phthalate	---	---	---	---	4
PESTICIDES/PCB'S (ppb)					
Alpha BHC	70	C	---	---	---
Aroclor-1260	890	---	---	---	---
INORGANICS (ppb)					
Aluminum	85	11800	---	---	---
Arsenic	178	8490	20	14000	26
Barium	610	173	958	---	292
Cadmium	---	---	---	32	---
Chromium	41	758	---	---	---
Cobalt	588	---	---	84	---
Copper	---	2410	---	---	115
Lead	---	---	---	---	---
Mercury	2.1	---	---	---	0.2
Nickel	349	17200	95	111	---
Selenium	---	---	---	---	---
Vanadium	---	---	---	159	---
Zinc	129	8864	26	2210	---
Cyanide	157	480	---	---	---

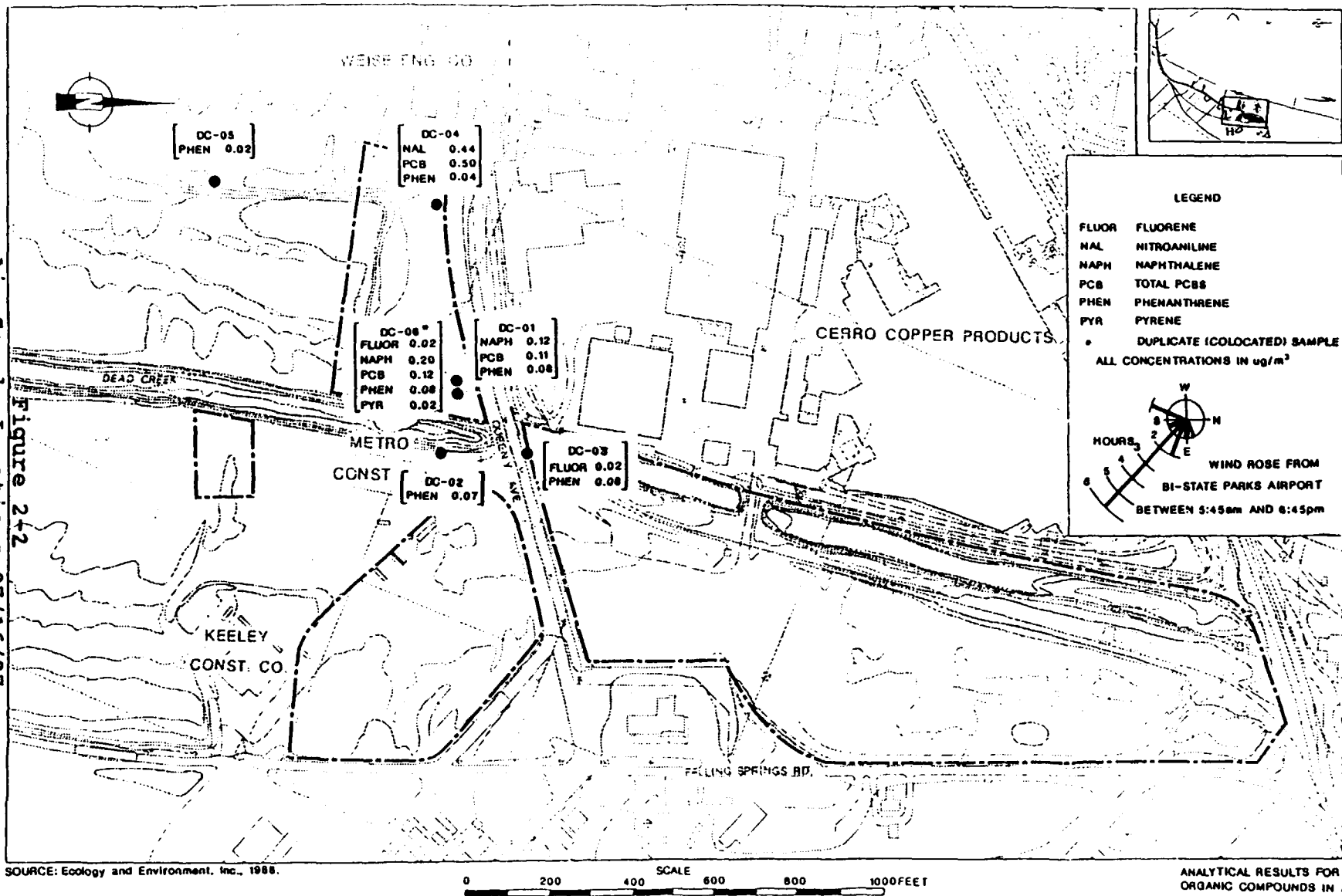
Site M groundwater samples were collected from nearby private wells.

Table 2-4 and Table 2-5 Qualifiers: J-estimated value; E-value exceeded calibration range; C-value confirmed by GC/MS; R-rejected data; *-duplicate analysis not w/in control limits.

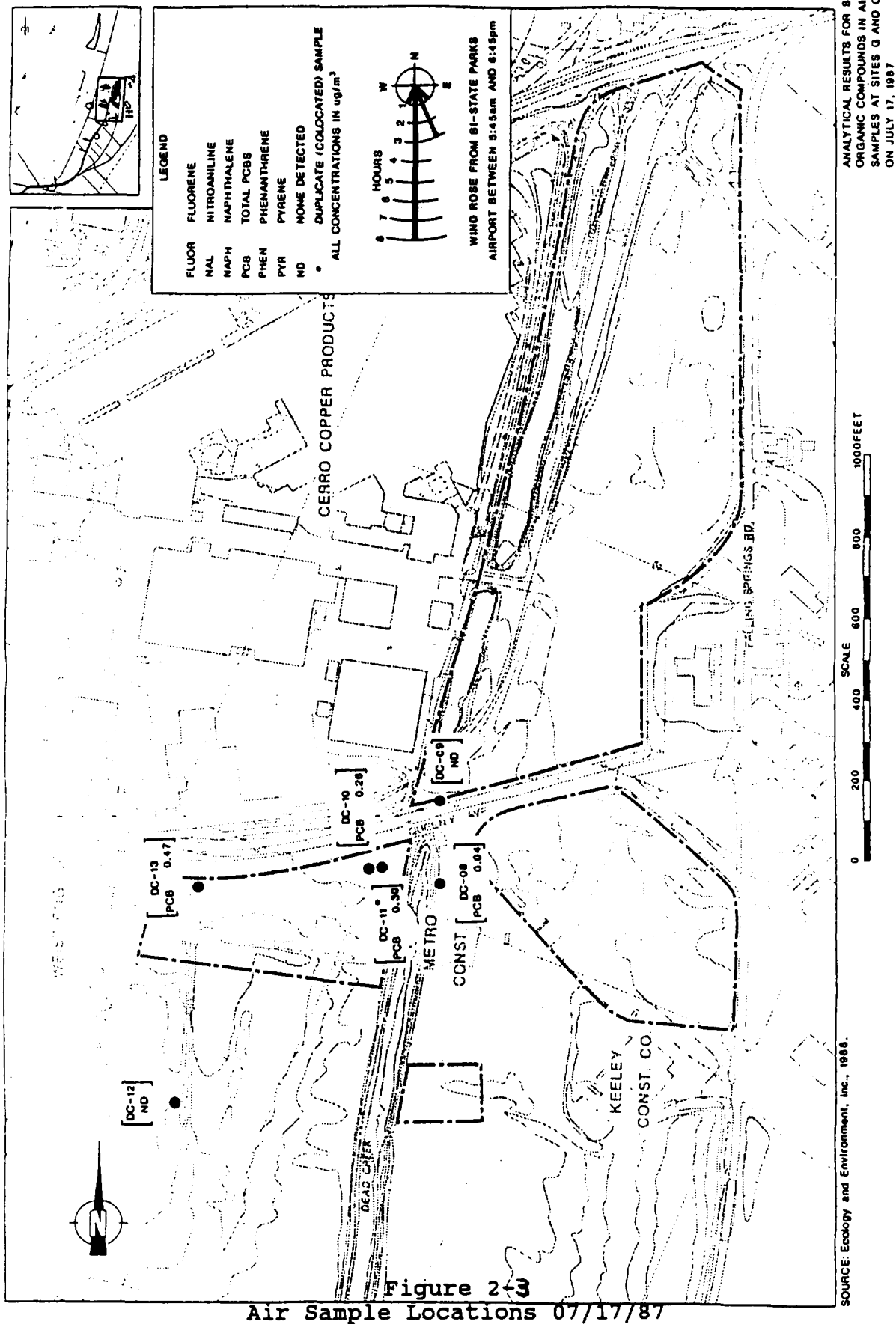
CERCLA Screening Site Inspection: Sauguet Sites Area #1

The air samples were collected by IEPA's contractor over a 2-day period. On July 16 and 17, 1987, air monitors were placed at six locations around Sites G and CS B. The analysis of these samples revealed the presence of organic contaminants during each day of sampling. The first day of sampling documented a release of PCB's, naphthalene, 2-nitroaniline, fluorene and pyrene. Only PCB's were detected on the second day. PCB's were found in all but two of the samples (the background and the sample across Queeny Avenue). The following maps and table from the report, summarizes this data.

Air Sample Locations 07/16/87



ANALYTICAL RESULTS FOR SELECT ORGANIC COMPOUNDS IN AIR SAMPLES AT SITES G AND CS-8 ON JULY 16, 1987



SUMMARY OF AIR SAMPLING RESULTS FOR SITE G/CS-B

Compound	Sample Number													
	DC-01†	DC-02	DC-03	DC-04	DC-05	DC-06†	DC-07*	DC-08	DC-09	DC-10†	DC-11†	DC-12	DC-13	DC-14*
	74JB	80JB	63JB	NA	75JB	116JB	17JB	67JB	51JB	66JB	101JB	70JB	NA	15JB
benzene														
naphthalene	0.12	--	--	--	--	0.20	--	--	--	--	--	--	--	--
phenanthrene	0.08J	0.07J	0.08J	0.04J	0.02J	0.08J	--	--	--	--	--	--	--	--
2-methylnaphthalene	--	--	0.03J	--	0.02J	0.02J	--	--	--	--	--	--	--	--
isophorone	--	--	--	--	0.02JB	0.01J	--	--	--	--	--	--	--	--
n-nitrosodiphenylamine	--	--	--	0.02J	0.02J	0.05J	--	--	--	--	--	--	--	--
fluorene	--	--	0.02J	--	--	0.02J	--	--	--	--	--	--	--	--
2-nitroaniline	--	--	--	0.44	--	--	--	--	--	--	--	--	--	--
benzyl alcohol	--	--	--	--	--	0.05J	--	--	--	--	--	--	--	--
fluoranthene	--	--	--	--	--	0.01J	--	--	--	--	--	--	--	--
pyrene	--	--	--	--	--	0.02J	--	--	--	--	--	--	--	--
Aroclor 1248	0.11	--	--	0.15	--	0.12	--	0.04	--	0.26	0.30	--	0.12	--
Aroclor 1254	--	--	--	0.18	--	--	--	--	--	--	--	--	0.18	--
Aroclor 1260	--	--	--	0.17	--	--	--	--	--	--	--	--	0.17	--
chromium	--	--	--	--	--	0.08	--	--	--	--	--	--	--	--
copper	0.94	0.67	0.66	0.71	0.35	0.73	--	0.87	0.78	0.62	0.76	0.38	0.67	--
lead	0.08	0.09	0.09	0.08	0.08	0.08	--	0.77	0.64	0.56	0.67	0.04	0.04	--
zinc	0.20	0.32	0.31	0.13	0.13	0.18	--	0.56	1.43	0.28	0.92	0.08	0.11	--

All results in ug/m³.

Samples DC-01 through DC-07 collected 7/16/87. Samples DC-08 through DC-14 collected 7/17/87.

* Blank samples - results reported in ug per sample medium (filter, cartridge).

† Duplicate (collocated) samples.

J Indicates estimated value. Result is less than the specified detection limit, but greater than zero.

B Compound also found in blank sample.

NA Not analyzed.

-- Not detected.

Source: Ecology and Environment, Inc. 1988.

Table 2-6
Air Sample Results from Site G and CS B

Mississippi River fish have also been studied downstream of the Sites. In a 1982 US Food and Drug Administration (FDA) study, 7 fish specimens caught near or below St. Louis were found to contain up to 1 part per million (ppm) chloronitrobenzenes. The specific residues found included 2-, 3- and 4-chloronitrobenzene and 2,3- and 3,4-dichloronitrobenzene.

In 1990, two fish specimens were collected adjacent to Sauget by the Illinois Department of Conservation for USEPA. The results of this study show that dioxin and furan isomers have bioaccumulated in the fish tissues at a total effective concentration (TEC) of 10.88 and 8.18 picograms per gram (pg/g). The levels are well above the nearest upstream (Illinois side) sample location where the TEC level was 1.73 pg/g in a comparative fish caught at Quincy, Illinois. The nearest upstream locations (West Alton, Missouri fish with TEC's of 7.99 and 0.50) are not considered comparative due to the confluence action of the Missouri and Mississippi Rivers.

2.5 APPLICATION OF OTHER STATUTES

None of the Area #1 Sites have been regulated as RCRA units because most of the waste disposal occurred previous to environmental regulations.

3. SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures utilized and observations made during the CERCLA SSI, conducted at Sauget Sites Area #1. Specific portions of this section contain information pertaining to the reconnaissance inspection, field sampling procedures and key analytical results. The SSI for the Area #1 Sites was conducted in accordance with the work plan which was developed and submitted to USEPA Region V, prior to the initiation of field activities.

USEPA's Potential Hazardous Waste Site Inspection Report (Form 2070-13) for each of the Sites is located in Appendix C of this report.

3.2 SITE REPRESENTATIVE INTERVIEWS

The site representative interview was conducted on March 13, 1991 between IEPA's team of Tim Murphy, Paul Takacs, Mara McGinnis and the Village of Cahokia's Mayor Mike King. The purpose of the meeting was to gain access agreements and gather additional information on Dead Creek as it flows through Cahokia. Other spontaneous interviews took place during the SSI sampling with local residents living along the creek.

3.3 RECONNAISSANCE INSPECTION

The Area #1 CERCLA site reconnaissance inspection was conducted after the March 13, 1992 interview by this author and the other IEPA officials. The major focus of the

reconnaissance inspection was the potential targets impacted by Dead Creek south of Judith Lane (CS C-F). Some of the homeowners living along-side Dead Creek, mow and maintain the creek bed. Other residents are not as caring. Certain areas of Dead Creek were littered with trash and small oil-like sheens were noted in CS C and D. Most of Dead Creek appeared to be a wetland. Figure 3-1 on page 3-3 of this report, shows the Area #1 sources of contamination with relation to Dead Creek as it flows through Cahokia.

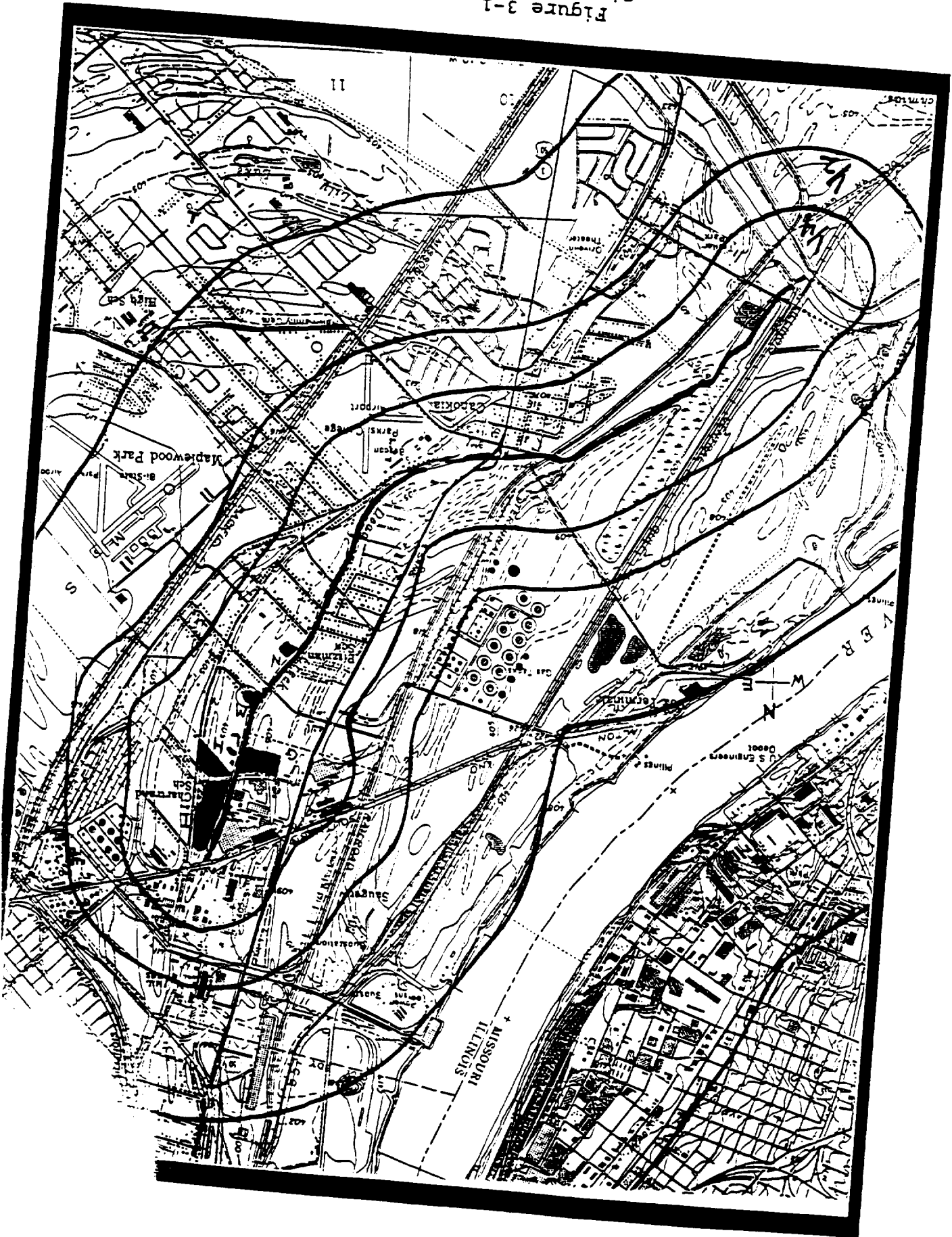
After the reconnaissance, the IEPA officials stopped into the East Side Health District in Washington Park. Ema Locket provided seven sample data forms from Cahokia residents concerned with safe drinking water from their private wells. The sample forms have been included as Appendix J of this report.

During the reconnaissance visit, it was determined that Modified Level D inspection attire could be worn during the sampling activities. Level C (air purifying respirator) equipment would also be brought along for use if air monitoring equipment detected significant concentrations over background or if other threatening conditions ensue.

3.4 SAMPLING PROCEDURES

Samples were collected by IEPA personnel throughout the downstream segments of Dead Creek which were not previously sampled. Samples were also collected from private wells and yards of Cahokia residents closest to the Area #1 Sites. Each of the samples were analyzed for compounds and analytes

Figure 3-1
Site Features



from USEPA's Target Compound List (TCL). The current list of compounds on the TCL is provided in Appendix D.

On March 27 and 28, 1991, IEPA collected five ground-water samples and thirteen soil/sediment samples. Figure 3-2 on page 3-6 of the report depicts the locations of the eighteen sample points.

3.5 GROUNDWATER SAMPLING PROCEDURES

Four private wells close to the Sites were sampled to determine if documented contaminants in Area #1 groundwater were effecting these sources of drinking water. A private well south of Parks College was sampled as a representation of existing background conditions. Each well was purged through a hose but sampled at the spigot. The wells were purged for a minimum of 20 minutes before directly filling each of the eleven sample containers. Preservatives were then added to the appropriate inorganic containers. The following table lists each of the private well locations.

Table 3-1

Groundwater Sample Descriptions

<u>Sample</u>	<u>Owner</u>	<u>Well Depth</u>	<u>Address</u>	<u>Nearest Site/ Distance</u>
G201	B. Settle	26'	102 Judith Ln	CS C/250' W
G202	W. Schmidt	49'	104 Judith Ln	CS C/350, W
G203	J. Ballett	~20'	3300 Falling Springs Rd	Site M/1000' W
G204*	H.E. Kearby	30'	144 St. James St	CS E/1800' NW
G205	W. Allen	17'	101 Walnut St	Site M/15' W

E-east, N-north, W-west, S-south, Ave-avenue, St.-Saint, St-Street, Rd-Road, ~-approximately, '-feet, *-background

3.6 SOIL/SEDIMENT SAMPLING PROCEDURES

IEPA collected four soil samples from private yards, seven samples from Dead Creek and two samples from the Old Prairie Dupont Creek (which Dead Creek flows into) for a total of thirteen soil samples (see Figure 3-2 for locations). Two of the thirteen samples were collected as background representatives. The background sediment sample was collected in the Old Prairie Dupont Creek, 200 feet upstream of the Dead Creek confluence. The background soil sample and the background groundwater sample were collected from the same yard. Table 3-1 describes each of the thirteen soil and sediment samples, listing their depth, physical appearance and location.

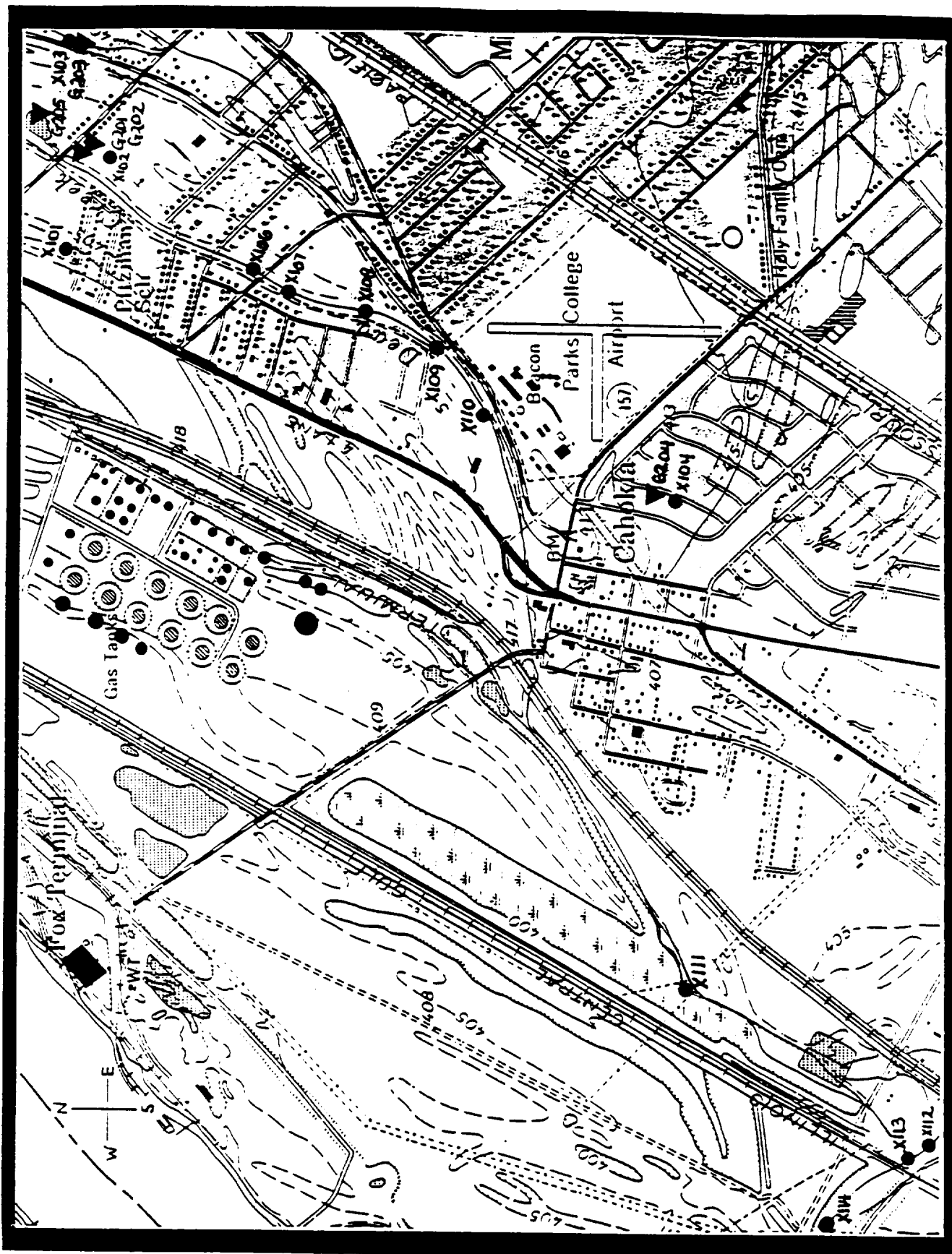


Figure 3-2
Soil/Groundwater Sample Location Map

Table 3-2

Soil Sample Descriptions

<u>Sample</u>	<u>Depth</u>	<u>Appearance</u>	<u>Location</u>
X101	0-6"	brn/org	Vernon Shepard property, 25 David St. next to fence on the N side of yard
X102	0-6"	blk/org	William Schmidt property, 104 Judith Ln. S central portion of yard
X103	0-6"	brn/org	John Ballett property, 3300 Falling Springs Rd. NW corner of front yard
X104* soil	0-6"	brn sand loam	H.E. Kearby property, 144 St. James St. SE central side of back yard
X106	0-1.5' 3'H2O	silty sed	center of Dead Creek behind the Repair Garage on Jerome St.
X107	0-1.5' 2'H2O	silty sed	center of Dead Creek behind the residence at 3809 White St. perpendicular to the center of the home
X108	1-2' 1'H2O	silty sed	Dead Creek at the S end of the culvert by the VFW Hall
X109	0-1' 6"H2O	sandy sed	center of Dead Creek at the Parks College/trailer park property line
X110	0-1' 4"H2O	sandy sed	center of Dead Creek 5' from the N end of the culvert at Parks College
X111	0-1.5' 1'H2O	brn silt to sand	center of Dead Creek in wetlands adjacent to N power line pole base
X112* sedi- ment	0-1.5' 2'H2O	silty clay	N bank of Old Prairie Dupont Creek 200' upstream of the Dead Creek confluence
X113	0-2.5' 1.5'H2O	blk sludgy sed	center of Dead Creek at confluence of Old Prairie Dupont Creek
X114	0-2' 3'H2O	clay silt	W bank of Old Prairie Dupont Creek approx. 1200' downstream of Dead Creek confluence

brn-brown, blk-black, org-organic, '-feet, "-inches, H2O-water, N-north S-south, E-east, W-west, rd-road, *-background samples.

3.7 DECONTAMINATION PROCEDURES

Standard IEPA decontamination procedures were followed prior to the collection of all samples. All sampling equipment had previously been decontaminated at the IEPA warehouse prior to its transport to the site.

Decontamination procedures include the cleaning of all sampling equipment with a liquid Alconox solution, rinsing with hot tap water, spraying with an acetone/distilled water mix, and finally rinsing with double distilled, deionized water. The sampling equipment was air dried and wrapped with aluminum foil for its use in the field sampling activities.

3.8 ANALYTICAL RESULTS FROM IEPA COLLECTED SAMPLES

Chemical analysis of groundwater samples collected from the private wells revealed the presence of certain inorganic analytes, and several volatile organic compounds. Analysis of soil/sediment samples collected in the lower creek segments revealed the presence of volatiles, semi-volatiles, pesticides, PCB's, heavy metals, common laboratory artifacts, and common soil/sediment constituents. Significant concentrations of organic compounds were detected in certain sediment samples within Dead Creek.

3.9 KEY SAMPLE RESULTS

The key analytical results of the Sauget Sites Area #1 CERCLA Screening Site Inspection are tabled on the following page. The key samples list only the analytically significant compounds and analytes based on USEPA draft guidance on the use of estimated data.

Table 3-3
KEY SAMPLE DATA SUMMARY

SAMPLING POINT	Bg. GW G204	G201	G205	Bg. Soil X104	X101	X102	X103
LOCATION	H.Kearby 30' @ 144 St. James St.	B.Settle 26' @ 102 Judith Ln.	W.Allen 17' @ 101 Walnut St.	H.Kearby SE Yd @ 144 St. James St.	V.Shepard N Yd @ 25 David St.	W.Schmidt S Yd @ 104 Judith Ln.	J.Ballett NW @ 3300 F.Springs Rd.
PARAMETER							
VOLATILES ppb							
Chlorobenzene	--	--	--	--	--	--	--
SEMIVOLATILES ppb							
Pyrene	--	--	--	--	--	--	--
Benzo(b)fluoranthene	--	--	--	--	--	--	--
Chrysene	--	--	--	--	--	--	--
PESTICIDES/PCB's ppb							
4,4'-DDE	--	--	--	--	--	--	--
Endrin	--	--	--	--	--	--	--
Endosulfan II	--	--	--	--	--	--	--
gamma-Chlorodane	--	--	5.02	200	706	--	--
Aroclor-1254	--	--	--	--	--	--	--
Aroclor-1260	--	--	--	--	--	--	--
INORGANICS water-ppb							
soil/sed-ppm							
Arsenic	--	--	--	--	--	--	--
Barium	--	--	--	--	--	--	--
Cadmium	--	--	--	0.8	B 4.9	--	8.5
Calcium	--	--	11900	--	--	--	--
Chromium	--	--	--	19.5	31.9	26.6	38.7
Cobalt	--	6.2	--	--	--	--	--
Copper	--	--	75	18.7	110	125	167
Lead	3.3	--	11	51	--	276	202
Magnesium	--	--	--	--	--	--	--
Mercury	--	--	--	--	0.07	0.07	0.2
Nickel	--	--	--	--	--	--	--
Zinc	38	580	658	161	575	--	738

Table 3-3 (cont)
KEY SAMPLE DATA SUMMARY

SAMPLING POINT	Bg. Sed. X112	X106	X107	X108	X109	X110	X111
LOCATION	OPDupont Up 200' Confluence	CS D Garage Jerome St	CS E Res 3809 White St	CS E Culvert VFW	CS E Border Parks C.	CS E Culvert Parks C.	CS F Wetland Pow. Line
PARAMETER							
VOLATILES ppb							
Chlorobenzene	--	--	120	--	--	--	--
SEMIVOLATILES ppb							
Pyrene	--	--	5300	--	--	--	--
Benzo(b)fluoranthene	--	--	2400	--	--	--	--
Chrysene	--	--	2800	--	--	--	--
PESTICIDES/PCB's ppb							
4,4'-DDE	--	--	--	--	--	--	97
Endrin	--	151	975	--	--	--	66
Endosulfan II	--	210	--	--	--	--	203
gamma-Chlorodane	--	--	--	--	--	--	--
Aroclor-1254	--	6955	45653	--	--	--	4486
Aroclor-1260	--	--	14273	--	--	--	862
INORGANICS water-ppb soil/sed-ppm							
Arsenic	2.2 B J	11.2	30.3	10.1	12.2	11.3	19.5 J
Barium	135	--	3690	--	--	--	--
Cadmium	--	3.9	23.1	21.9	11.8	1.9	23.5
Calcium	3650	22200	83400	66200	--	55300	--
Chromium	20.2	--	105	--	--	--	--
Cobalt	--	--	--	--	--	--	18.8
Copper	10.4	149	8540	1160	404	108	520
Lead	7.7	209	1270	235	140	440	83
Magnesium	2390	--	7890	7750	--	--	--
Mercury	--	0.2	1.53	1.27	0.62	0.32	0.34
Nickel	14	78.5	2130	134	391	56	772
Zinc	44.7	704	9970	1740	3140	382	4520

Qualifiers: J-estimated value; B-value reported is < CRDL but > IDL.

4. SOURCES OF CONTAMINATION

4.1 INTRODUCTION

This section discusses the sources of contamination identified at Sauget Sites Area #1. Information concerning the size and volume of each source has been derived from the E&E investigation financed by IEPA.

4.2 SITE G

Site G is a 4.5 acre disposal area littered with drums (approximately 30), demolition debris and junk. It is located in Sauget, south of Queeny Avenue and east of Dead Creek. South of Site G, there is a cultivated field, while Wiese Engineering is west of the site. Within the western portion of the fenced site, there is a mounded area where several corroded drums are jutting from the surface. Two small pits with oily/tar-like waste are in the northeast and east-central portions of the site. Some areas where the waste is not exposed, cinder material and fly ash have been used as cover.

Boring logs at Site G reveal 3 to 12 feet of fill material overlying 15 to 25 feet of waste. The maximum depth of waste was found to be 36 feet. Below the waste, is extensively stained sand associated with the lower Cahokia Alluvium or the upper Henry Formation.

Analytical results from surface soil samples collected from 32 grid sections in the central portion of Site G show an average total organic concentration of 5,096 mg/kg. Using the top six inches of soil, a volume of 1,489 cubic yards of

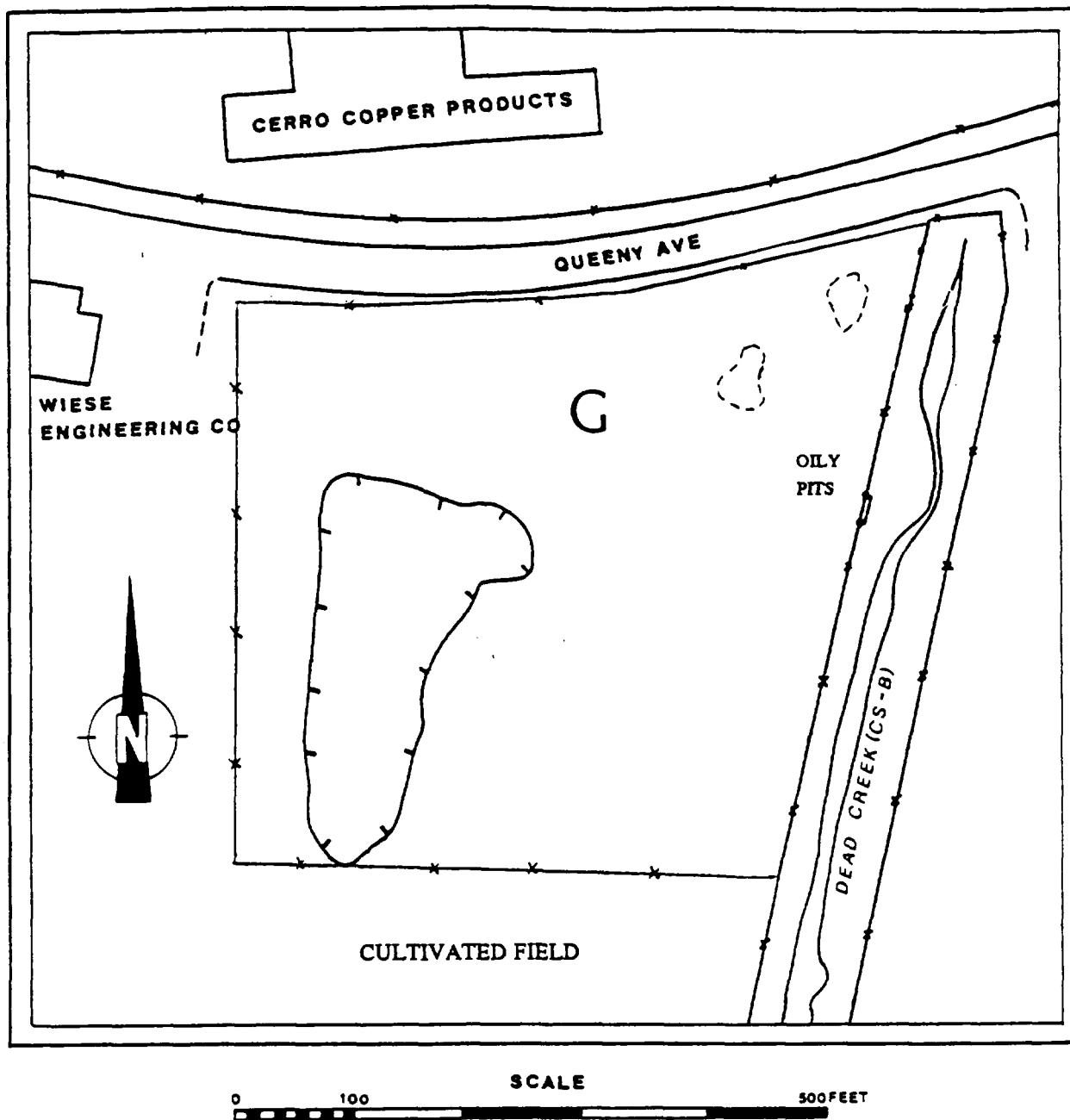


Figure 4-1
Site G and Northern CS B

waste and fill material has been calculated.

Based on the depths and thickness of the waste along with the horizontal distances between the borings, a total volume of approximately 60,000 cubic yards of contaminated waste and fill material is present in the subsurface of Site G. The average total organic concentration of this material is 4,406 mg/kg based on three samples from the waste zone. The volume calculation does not include the contaminant concentration of the stained sand below the waste.

4.2 SITES H & I

Sites I and H are known collectively as the Sauget-Monsanto Landfill. The sources are connected at "old" Queeny Avenue and are approximately 26 acres in size. The inactive landfills are located along Falling Springs Road, north and south of Queeny Avenue in Sauget. The site is delineated by Falling Springs Road on the east, the Alton and Southern Railroad to the north, Dead Creek Segment A and Metro Construction Company on the west. There is no boundary delineation to the south, however, the landfill extends approximately 1250 feet south of the intersection of "new" Queeny Avenue and Falling Springs Road.

Historical aerial photographs show operations existing prior to 1936. Title information shows Leo Sauget as principal owner from late 1931 and allegedly the operator. Previous to it's use as landfills, the site was a series of sand and gravel pits. According to two "Notification of

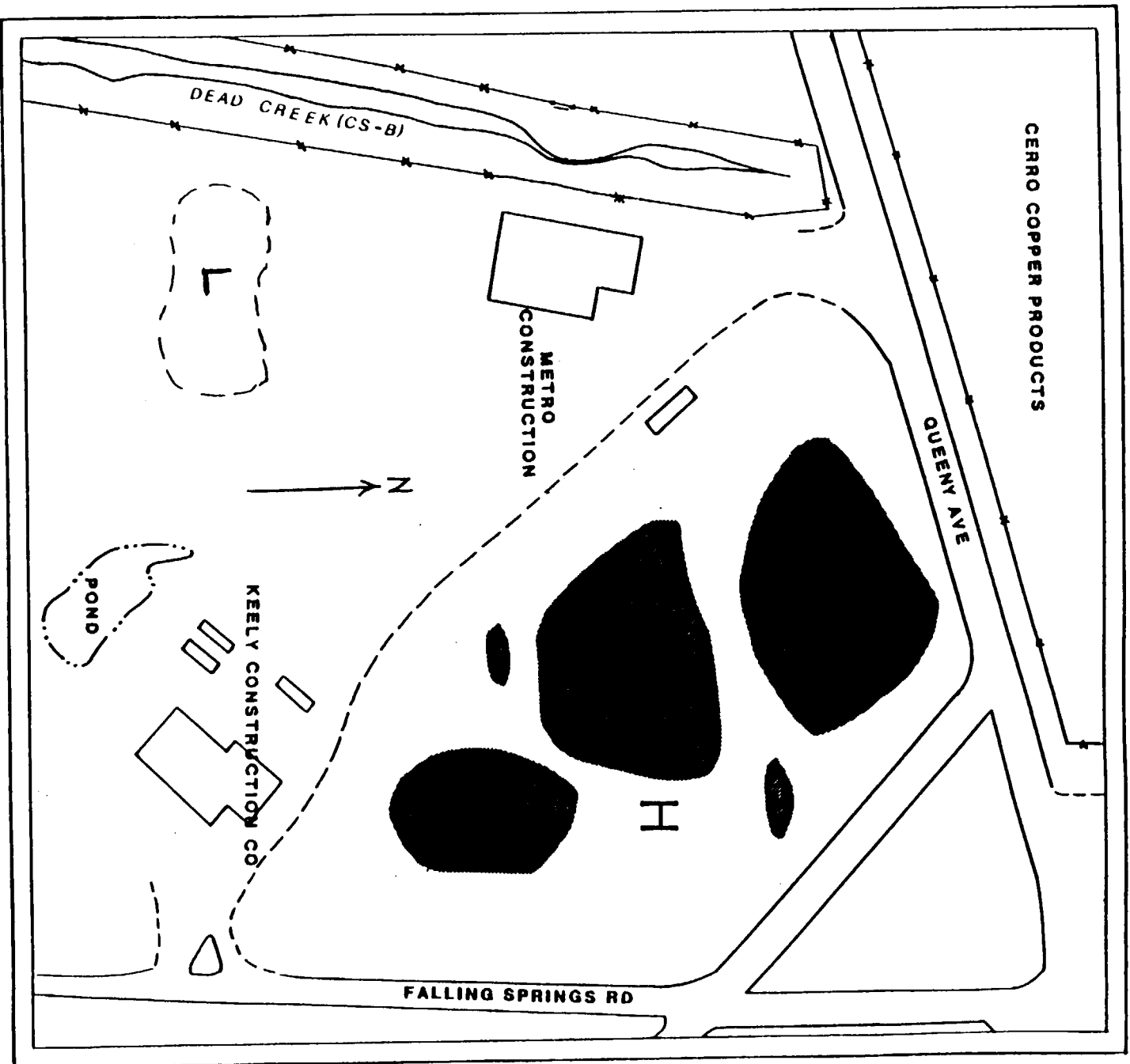


Figure 4-2
Site L, H and Northern CS B

4-4

Hazardous Waste Site" forms (103[c]) submitted by the Monsanto Company to the USEPA, the site accepted chemical wastes from the company's Queeny and Krummrich plants in St. Louis and Sauget, respectively. Aerial photographs also show landfilling activity decreasing by the late 1950's, consistant with Monsanto's 103(c) submittal.

Site H has been graded and is sparsely vegetated. Several depressed areas are evident across the site. Surface drainage is toward the west, Dead Creek. Other than slag, waste material is not present on the surface of the site. However, there are several rusted-out drums that are present on the surface. There are no barriers present to control access to the site.

At Site H, 2.5 to 13 feet of the fill material is described in the eight borings taken across the site. The differences in the fill thickness suggest the entire site has been reworked as a result of the activities related to the disposal pit. The waste materials found in six of the eight borings consisted of multi-colored sludges, solids and oily refuse underlying the fill. The waste is 20 feet at its thickest in the central portion of the site. Below the disposal pit waste, there is staining to the Cahokia and Henry formation sands. Waste materials are below the water table which averages 10 feet below the ground surface.

Site I has been graded, covered with rock, and is used by its current owner, Cerro Copper Products, to park trailers and machinery. Access to Site I is barred by an eight foot

chain-link security fence and is monitored by cameras at all times. Access to the site is through Cerro Copper.

The eleven borings at Site I identified two disposal pits. The largest of the two pits is located south of the access road from the Cerro Copper Products plant road (the old Queeny Avenue). This pit was connected with the Site H until the new Queeny Avenue was built. The smaller pit is located north of the access road. Both pits are at least 23 to 25 feet deep. Fill material ranges from 3 feet outside the disposal pit areas to 13 feet covering both pits. The waste materials found below the fill consisted of oily sand, clay, wood and cinders mixed with occasional refuse such as cardboard, rubber and cloth. Each of the pits contained a sludge-like material and staining to the Cahokia Alluvium deposits below the waste. Waste materials are below the water table that averages 10 feet below the ground surface.

Based on the depth and thickness of the waste material together with the distance between the boring locations across Sites I and H, a total volume of 200,000 cubic yards of contaminated waste and fill material is found in the south pit while the smaller pit has a total volume of 50,000 cubic yards. Based on the analytical results of the samples collected from the waste zone of the south pit, the average total organic contamination concentration of the material is 12,218 mg/kg. In the north pit, the average total organic contamination concentration of the waste material is 6,300 mg/kg.

4.4 Site L

Site L is the former location of two surface impoundments used by Waggoner Trucking and later, Ruan Trucking. The hazardous waste transporters used the impoundments were used to dispose of wash water from truck cleaning operations by the hazardous waste transporters. The main impoundment was located 125 feet east of CS B and about 250 south of the Metro Construction Building. Historical photographs show dimensions of filled-in lagoon to be 150 feet by 70 feet. The site is now covered by black cinders and used by Metro Construction Company for equipment storage.

The second impoundment was identified in a historic air photograph. This impoundment was located farther east of the main lagoon and CS B. This impoundment has not been investigated.

IEPA calculated a rough estimate of the quantity of wash water disposed of at Site L between 1971 and 1978. The estimate of 164,000 gallons is based on the assumption that Ruan Trucking operated at the same volume as Waggoner Trucking (not HRS usable).

The four E&E borings determined that the impoundment had a depth of approximately 8 feet, was not lined and had a base of medium to coarse grained sands. The subsurface soil samples collected from Site L showed a total organic concentration range from 0.008 mg/kg to 120 mg/kg. Contaminants included benzene, toluene, phenols and arsenic.

In 1991, Monsanto Company contracted Geraghty & Miller

Environmental Services (G&M) to further investigate Sites L, M and CS B. G&M determined the dimensions at Site L to be slightly smaller than previously thought. The back-filled impoundment was 165 feet by 35 feet (7,600 square feet). G&M soil samples at Site L were more polluted than the E&E collected samples. The G&M analysis showed a greater concentrations of contaminants as well as previously undetected contaminants, including PCB's at 500 mg/kg in one sample. The Expanded Site Inspection for Sauget Sites Area #1 details the validated analytical findings of the G&M report.

4.5 Site M

Site M is a sand pit excavated by H.H Hall Construction Company in the mid to late 1940's. The pit is located on the east side of Dead Creek at the end of Walnut Street in Cahokia. The sand pit was mined prior to the residential development along Walnut Street. The dimensions of the pit are 220 feet by 320 feet (59,200 square feet). The water in the pit is up to 14 feet deep. Water can flow into or out of the pit through an eight foot opening which connects CS B with Site M. Presently Site M and CS B are surrounded by a chain-link fence. The current owner of Site M is Cahokia resident, Mr. Thomas Owen.

G&M results of Site M showed that approximately 3600 cubic yards of sediment have been impacted by PCB's (PCB's found above 50 mg/kg).

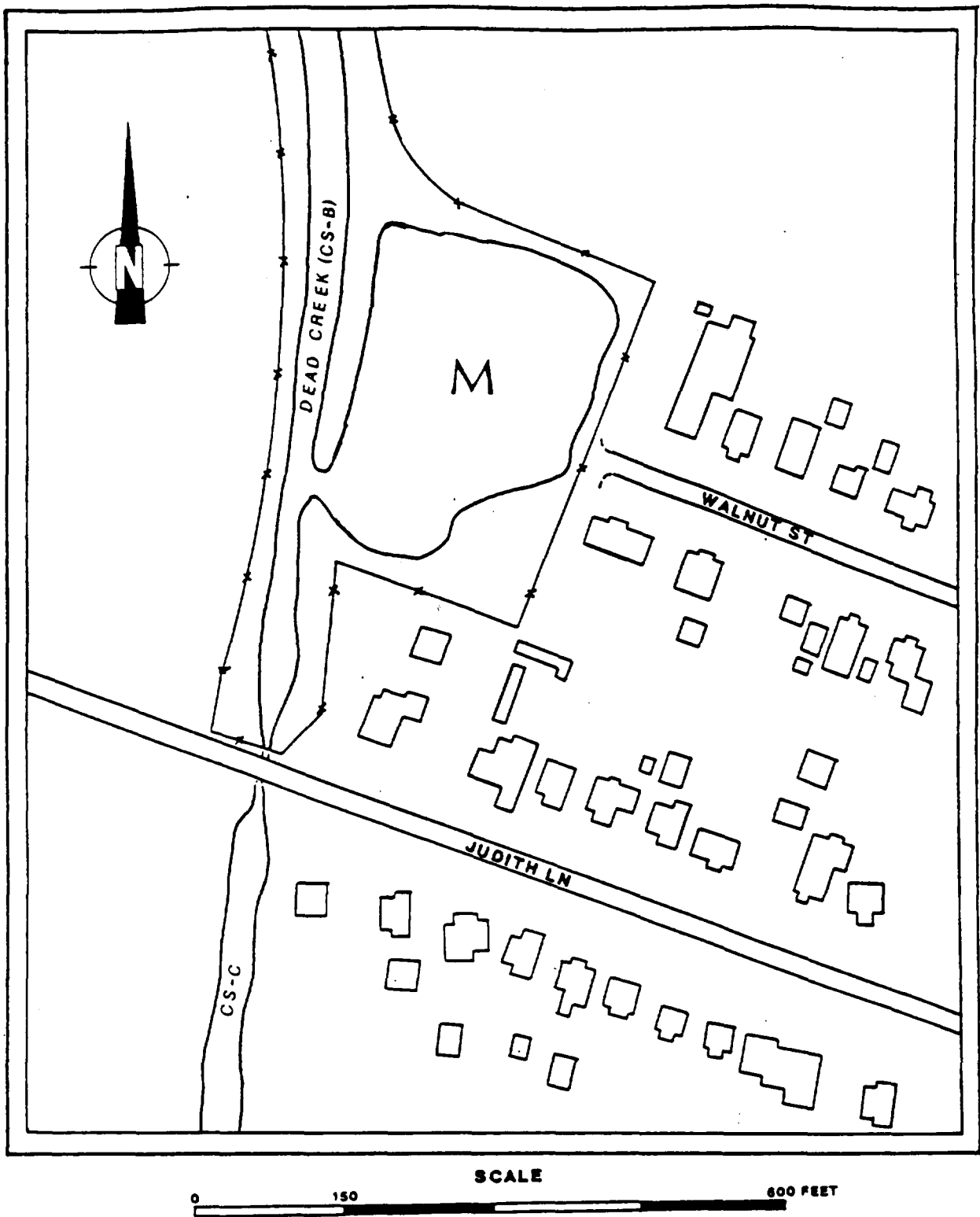


Figure 4-3
Site M, Southern CS B and Northern CS C

4.6 Site N

Site N consists of a filled barrow pit in the H.H. Hall Construction Company yard. The filled pit encompasses four to five acres in the southwest corner of the 23 acre yard. The site is located next to Dead Creek in a residential and commercial neighborhood of Cahokia. currently, Site N is filled and covered with rubble. Access to the entire construction yard is restricted by a chain-like fence.

Historical photographs indicated that the excavation at Site N began in the 1940's. The 1950 photographs show the presence of water in the pit. According to company officials, only concrete rubble and demolition debris were dumped into the pit.

E&E found no waste materials in either of the two borings at Site N. However, black and reddish-brown staining was noted on silt and sand samples from six to ten feet in one boring. The borings showed that the pit had been filled with concrete, rubber and demolition debris. Three to ten feet of this fill material was found overlying interbedded silty sand, sandy silt and fine sand typical of the Cahokia Alluvium.

Composite soil samples collected from the each of the two borings showed organic contamination of polyaromatic hydrocarbons (PAH's) with a total organic concentration of 3.6 mg/kg.

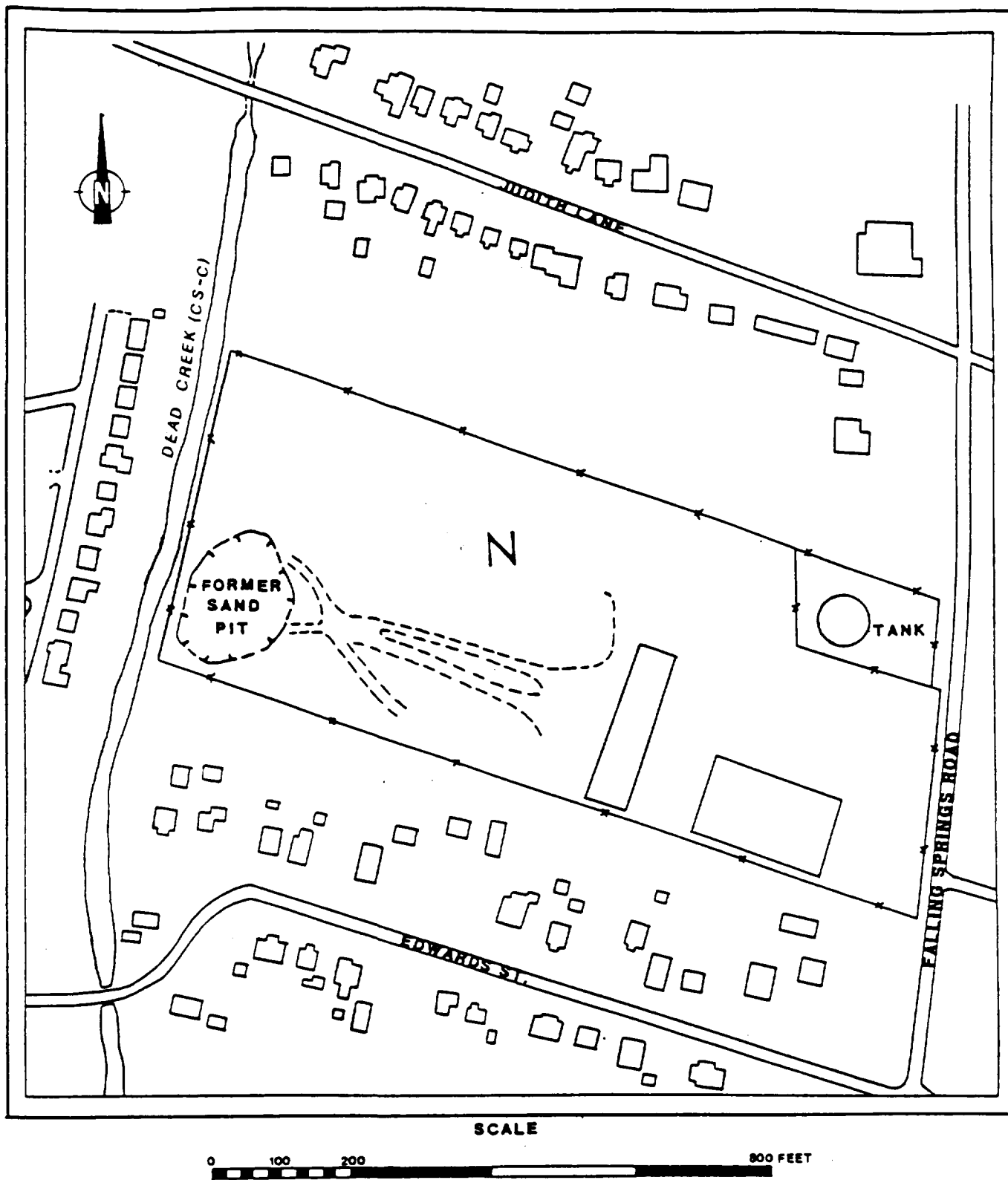


Figure 4-4
Site N and CS C

4.7 Dead Creek Segment A

The headwaters of Dead Creek are dubbed CS A. CS A is located just west of Site I on Cerro Copper property. The 1700 foot segment consisted of two holding ponds that were created when the Queeny Ave culvert was blocked off. In 1990, Cerro Copper remediated CS A, when 27,500 tons of contaminated sediments were removed to RCRA and TSCA regulated facilities.

During the remedial investigation, geologic profiles of CS A were obtained. The profiles were described as fill and fluidized creek bottom sediments. The fill material was tan to black, stained dry, sandy silt to silty sand, intermixed with concrete, bricks, road aggregate, rags, slag and vitreous pellets. It was often characterized by a chemical odor. The fill material varied from one to 15 feet thick depending on the location along the creek bank. The fluidized creek bottom sediments were brown to yellowish brown, black, mottled, wet, fluidized silt which contained organic matter and exhibited a chemical odor. The fluidized creek sediments ranged from one-half to 11 feet thick.

The investigation concluded that 19,500 cubic yards of contaminated sediments would need to be remediated.

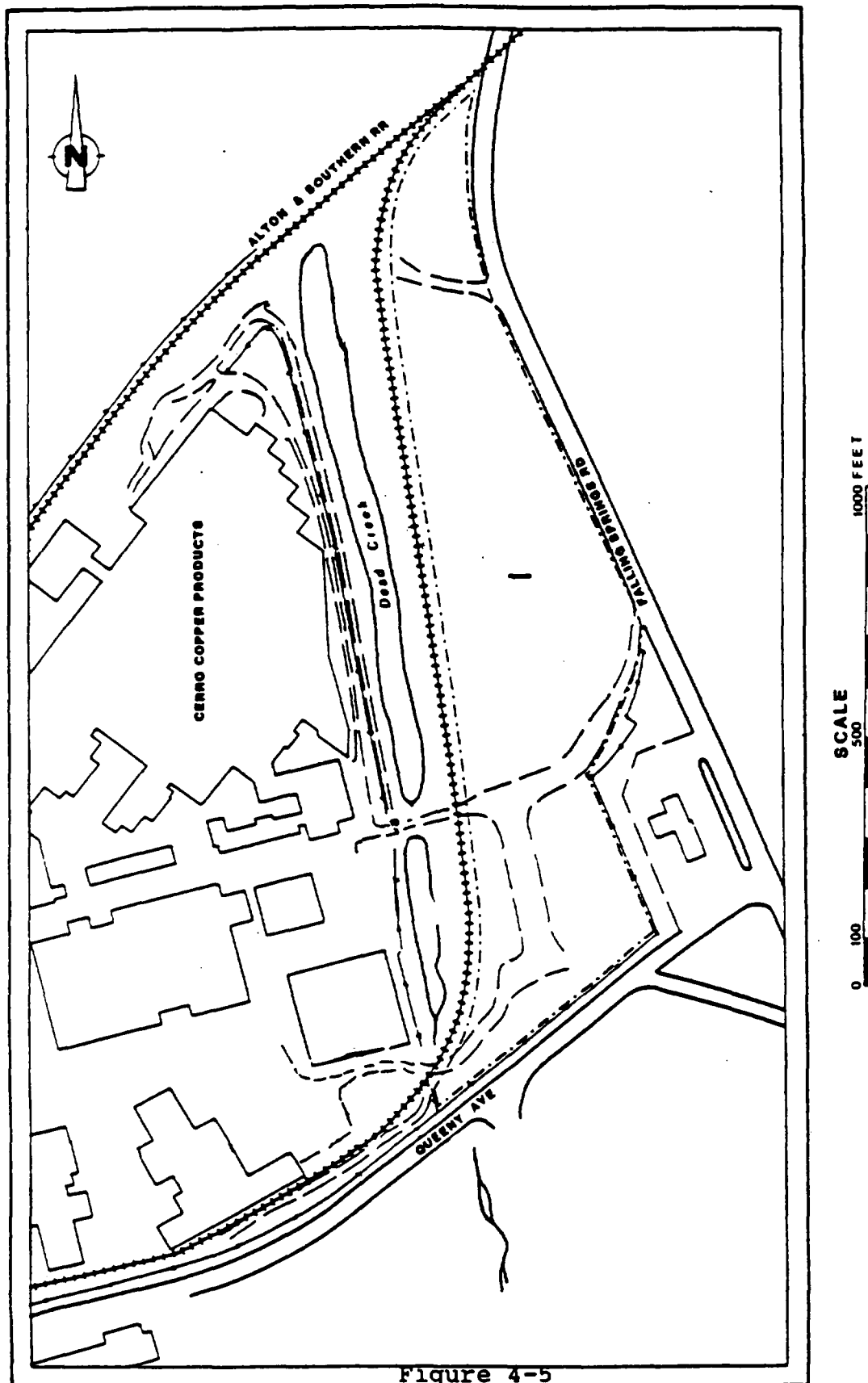


Figure 4-5
Site I and CS A

4.8 Dead Creek Segment B

Segment B includes the 1800 feet of creek lying between Queeny Avenue and Judith Lane in Sauget. Three other Area #1 Sites are located adjacent to CS B. Sites G, L and M have all been identified as possible sources of pollution in CS B. USEPA installed the fence around CS B and Site M in 1982. The banks of the creek are heavily vegetated and debris is scattered throughout the northern portion of CS B. CS-B belongs to the Village of Sauget.

G&M figured a volume of 3,330 cubic yards of sediment (the amount in the upper 2 feet) that have been impacted by contamination in CS B. This is the approximate amount that would need to be remediated.

4.9 Dead Creek Segments C through F

Creek segments C-F includes the entire length of Dead Creek south of Judith Lane. This portion of the creek flows south-southwest through the Village of Cahokia prior to discharging into the Prairie Dupont Creek. Dead Creek is wider in CS C-F than in the up-gradient segments. In the southern portion of CS E near Parks College, the creek temporarily passes through a corrugated pipe. Downstream of this point, the creek passes through a series of culverts prior to draining into a large wetland area west of Illinois Route 3.

The CERCLA SSI samples revealed that the down-gradient segments C-F, including the large wetland, have been impacted by the contaminants draining from the Area #1 Sites. The

lower segments of Dead Creek consist of approximately 3.4 acres (15,000 feet times 10 feet/43,560 square feet/mile).

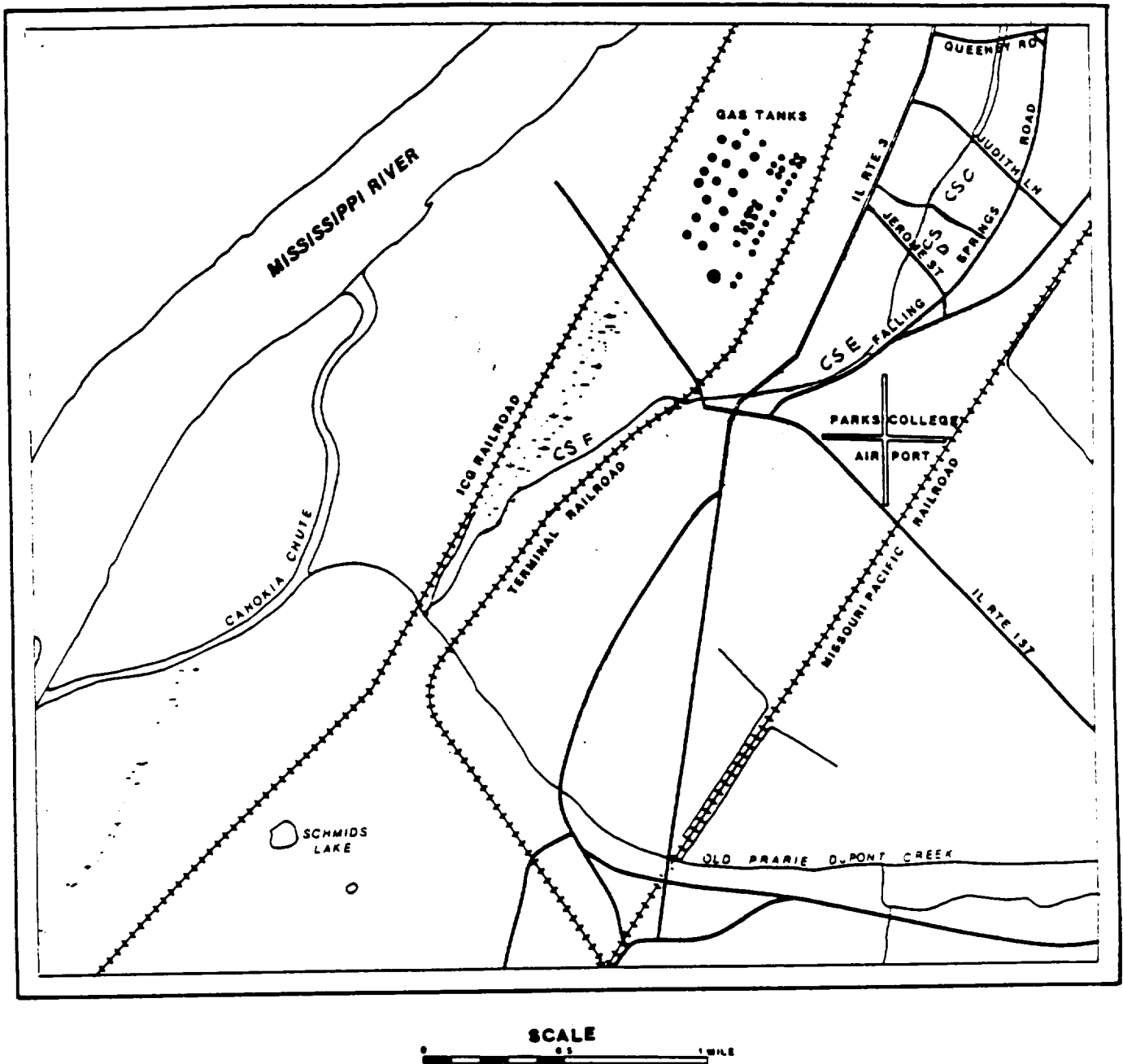


Figure 4-6

Dead Creek Segments C through F

5. MIGRATION PATHWAYS

5.1 INTRODUCTION

This section includes information that may be useful in determining the Sauget Sites Area #1 impact on the three migration pathways (groundwater, surface water, air) and the soil exposure pathway identified in CERCLA's hazard ranking system (HRS). Based on the analytical results noted in the previous section, and findings from previous investigations, each pathway has been subject to a release from the Sites. The hazardous waste releases are threatening to effect the human health and environment in the Sauget and Cahokia area.

5.2 GROUNDWATER PATHWAY

Sauget Sites Area #1 are located in a region known as the American Bottoms. ISGS well logs indicate that the upper stratigraphy in this region consists of 70-120 feet of unconsolidated alluvium and glacial outwash overlying Mississippian aged limestone and sandstone formations (Ste. Genevieve and St. Louis Limestones). The valley fill deposits are composed of two formations, the uppermost being the Cahokia Alluvium followed by the Mackinaw Member of the Henry Formation.

The Cahokia Alluvium is composed predominantly of silt, clay and fine sand deposits. In the Sauget area, these deposits vary in thickness, with a range of 15 to 30 feet. This formation was laid down via flood events, eolian activity, bank slumping, erosion and/or slugs of material deposited directly by tributary streams. The Mississippi

River has frequently re-worked this formation in such a way that coarser material is intermingled with finer-grained deposits.

Underlying the Cahokia Alluvium is the Mackinaw Member of the Henry Formation. This formation is composed of sand and gravel from glacial outwash. In the Sauget area, this material rests directly on the bedrock surface and varies between 70 and 100 feet in thickness.

Local hydrogeologic information has been obtained through groundwater monitoring in the Sauget area. In the vicinity of the Area #1 Sites, shallow sand and gravel deposits close to the ground surface, yield significant quantities of water for nearby homes and business. Horizontal groundwater movement in the shallow deposits generally follow the land surface topography, with lateral movement toward local discharge zones (wells and small streams) and some movement into the deeper unconsolidated aquifers. Groundwater is encountered between six and 15 feet below the ground surface in area. These figures can be used for the depth to the aquifer of concern (AOC). Groundwater in the deeper unconsolidated valley fill deposits generally follows the bedrock surface. Accordingly, groundwater generally flows downstream through the sand and gravel aquifers in much the same direction as the original stream flow, but at a much slower rate.

Most area residents are supplied with drinking water by the Illinois-American Water Company (IAWC) which operates an

intake on the Mississippi River upstream of Sauget. IAWC sells the water to the various water departments and districts within the Sauget/Cahokia area. However, some area residents do obtain drinking water from shallow wells. Illinois Department of Public Health (IDPH) files and Illinois State Water Survey (ISWS) well logs indicate at least 50 area residents have wells which are used for drinking or irrigation. These wells are located in Cahokia (23), East St. Louis (5), East Carondelet (16) and Dupo (6). These numbers do not include the wells at the homes on Judith Lane in Cahokia or an unknown number of residents in the Schmids Lake area (approximately 2.3 miles southwest) that are not covered by any public water distribution. The alluvial well at PT's Show Club, which draws water from the AOC, is monitored by the IDPH as a non-community well (serving over 25 people). A 1983 report by the Southwestern Illinois Metropolitan and Regional Planning Commission (SIMRPC) listed 69 residences in Centreville Township (includes Sauget, Cahokia, Alorton and Centreville) which use private water systems. The same report lists 57 residences in East St. Louis and 365 residences in Sugarloaf Township (includes Dupo, North Dupo and East Carondelet). SIMRPC based their report on 1980 census data.

5.3 SURFACE WATER PATHWAY

Although the Area #1 Sites are located in the American Bottoms floodplain, flooding is controlled by the U.S. Army Corps of Engineers 500-year levee. All of the Area #1 sites

drain into Dead Creek which flows into Old Prairie Dupont Creek. The probable point of entry (PPE) is defined as the site(s) drainage point as it enters a perennial surface water body or it's associated wetlands. In the case of the Area #1 Sites, Dead Creek has been designated a wetland throughout it's 18,000 feet course. Therefore, Dead Creek is the PPE for the Area #1 Sites. The Dead Creek wetland drains into the perennial flowing, Old Prairie Dupont Creek which empties into the Cahokia Chute of the Mississippi River. The distance from the Dead Creek - Old Prairie Dupont Creek confluence to the main channel of the Mississippi River (river mile 174.2) is 1.5 miles. A 15-mile surface water map is included in Appendix B of this report.

The average discharge of the Mississippi River, as measured over a 128 year period at St. Louis, Missouri, is 179,800 cubic feet per second. The 15-mile surface water target distance limit extends to Mississippi River mile 160.7. Within this stretch, the river is used for recreational purposes (fishing, water skiing etc.) and freight trafficking. There is an upstream surface water intake at river mile 181, which supplies most of the Illinois side area residents, was mentioned in the groundwater section. The City of St. Louis is also supplied by an upstream surface water intake, about 16 miles north at river mile 190. At downstream river mile 149 (about 24 river miles south of area), the Village of Crystal City, Missouri (population 4000) utilizes a Ranney well, adjacent to the

Mississippi River, for drinking water. A well of this kind is assumed to draw in surface water due to its construction and location to the river. On the Illinois side, the nearest downstream surface water intake is located approximately 61 miles south of the area, at river mile 110. The intake is used by the town of Chester and surrounding communities in Randolph County. According to the Illinois Department of Conservation (IDOC), the Resource Inventory for the Mississippi River at river miles 178-162 shows commercial fishing areas, sport fishing areas, important wildlife habitat and bald eagle use at selected areas in this reach.

5.4 AIR PATHWAY

Documented releases to the ambient air were observed in E&E study of the Sites. It has been estimated that about 1587 people live within a mile of the Area #1 Sites and about 174,163 people live within 4-miles, based on house counts and census data. The table on the following page shows the target distance populations. According to the Illinois Department of Commerce and Community Affairs (1988), approximately 3,200 people are employed within the Sauget Area.

5.5 SOIL EXPOSURE PATHWAY

The soil and sediment samples collected during the SSI indicate a potential for direct contact with hazardous wastes. Access remains unrestricted to the contaminants found in Dead Creek Segments C through F. Four residential properties and Parks College have ownership of Dead Creek in

CS D and CS E. There are also several residential encroachments into Dead Creek. Appendix A in the Expanded Site Inspection Report contains specific property boundary information.

Table 5-1

Target Population Calculation

<u>Distance</u> <u>Ring</u>	<u>(Homes)</u> <u>x 2.76</u>	<u>Percent of</u> <u>Village</u>	<u>Area (mi2) x</u> <u>Pop. Density</u>	<u>Pop./</u> <u>Pop. Total</u>
0-1/4	(575) 1,587	--	--	1,587/ 1,587
>1/4-1/2	(324) 895	Cahokia 1.5% (18,904) 284	--	1,178/ 2,765
>1/2-1	--	Cahokia 43% (18,904) 8,139	.328 E.St.L. (4,119) 1,353	9,491/ 12,256
>1-2	(385) 1,063	Cahokia 42.3% (18,904) 8,000	1.9 E.St.L. (4,119) 7,826 1.0 St.L. (7,379) 7,379	24,268/ 36,524
>2-3	--	Dupo 5% (3,039) 1,520 Centreville 75% (9,747) 7,310 Alorton 100% (2,237) 2,237	2.3 E.St.L. (4,119) 9,474 5.9 St.L. (7,379) 43,537	64,078/ 100,602
>3-4	--	Dupo 5% (3,039) 1,520 Centreville 25% (9,747) 2,436	4.0 E.St.L. (4,119) 16,476 7.2 St.L. (7,379) 53,129	73,561/ 174,163
Total Target Population = 174,163				

6. BIBLIOGRAPHY

- The Avendt Group, Inc. March 1990, Site Investigation / Feasibility Study for Creek Segment A prepared for Cerro Copper Products, Sauget, Illinois.
- Bureau of the Census. County and City Data Book. 1990 U.S. Census data.
- Illinois Department of Commerce and Community Affairs, 1988, Illinois Manufacturers Directory, published by Manufactures' News, Inc.
- Illinois Department of Energy and Natural Resources, State Water Survey, water well records of wells in St. Clair County, Townships 1 and 2 North, Ranges 10 and 9 West.
- Illinois Environmental Protection Agency, Division of Land Pollution Control files for St. Clair County L1630000000.
- Ecology and Environment Incorporated (E&E). May, 1988, Expanded Site Investigation Dead Creek Project Sites at Cahokia/Sauget, Illinois prepared for Illinois Environmental Protection Agency, Division of Land Pollution Control.
- Geraghty and Miller, Incorporated. March, 1992, Site Investigation for Dead Creek Sector B and for Sites L and M, in Sauget and Cahokia, Illinois, prepared for Monsanto Company, St. Louis, Missouri.
- Lutz, Richard W. Illinois Department of Conservation, Division of Planning, Impact Analysis Section Supervisor. June 24, 1991. Personal correspondence.
- Moore, Bonnie. Southwestern Illinois Metropolitan Planning Commission, (618) 344-4250, Telephone interview.
- U.S. Department of the Interior. Water Resources Data - Illinois, Water Year 1989 Volume 1. Illinois except Illinois River Basin. U.S. Geological Survey, 1990
- U.S. Department of the Interior. Fish and Wildlife Service, National Wetlands Inventory Maps: Monks Mound, IL. Quadrangle (225A), Granite City, IL-MO Quadrangle (225B), Cahokia, IL-MO Quadrangle (225C), French Village, IL. Quadrangle (225D).
- U.S. Geological Survey, 1974, Monks Mound, IL. Quadrangle (225A), 1982, Granite City, IL-MO Quadrangle (225B), 1974, Cahokia, IL-MO. Quadrangle (225C), 1982, French Village, IL Quadrangle (225D), 1974, Webster Groves, MO-IL (224D), 1982, Clayton, MO (224A) 7.5 Minute Series

USEPA, December, 1990 Draft, Bioaccumulation of Selected Pollutants in Fish. A National Study EPA 506/6-90/001b Washington D.C.

Yuragecz, M.P., and B.J.Puma, 1983, Identification of Chlorinated Nitrobenzene Residues in Mississippi River Fish, Journal of the Association of Official Analytical Chemists 66(6):1345-1352.

SDMS US EPA REGION V

FORMAT- OVERSIZED - 5

IMAGERY INSERT FORM

The item(s) listed below are not available in SDMS. In order to view original document or document pages, contact the Superfund Records Center.

SITE NAME	SAUGET AREA 1		
DOC ID #	150584		
DESCRIPTION OF ITEM(S)	OVERSIZE SITE MAPS		
REASON WHY UNSCANNABLE	<u> X </u> OVERSIZED	OR	<u> </u> FORMAT
DATE OF ITEM(S)			
NO. OF ITEMS	2		
PHASE	SAS		
PRP			
PHASE (AR DOCUMENTS ONLY)	<u> </u> Remedial <u> </u> Removal <u> </u> Deletion Docket <u> </u> AR <u> </u> Original <u> </u> Update # <u> </u> Volume <u> </u> of <u> </u>		
O.U.			
LOCATION	Box # Folder # Subsection		
COMMENT(S)			
OVERSIZED SITE MAPS			

APPENDIX A
GROUNDWATER 4-MILE RADIUS MAP

ILLINOIS EPA

Sauget Sites Area #1

AGGREGATED SITES: G, H/I, L, M,
N, CS A, CS B, CS C-P. ILD #'s:
981951623, 000722074, 984809269,
984809251, 982073603, 984809277,
980792006, 984809285

USGS TOPOGRAPHIC MAPS

Clayton, MO

224A

1974

NAME: Granita City, IL-
MO
NUMBER: 225B
DATE: 1982

Site Location

Nearest Well

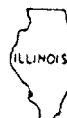
Public Wells

Webster Groves,
MO-IL

224D

1974

NAME: Monks Mound, IL
NUMBER: 225A
DATE: 1974



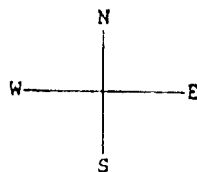
QUADRANGLE LOCATION

Cahokia, IL-MO

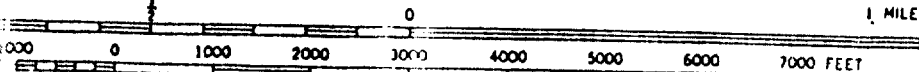
225C

1974

NAME: French Village, IL
NUMBER: 225D
DATE: 1982



Scale 1:24000



APPENDIX B
SURFACE WATER ROUTE MAP

ILLINOIS ENVIRONMENTAL
PROTECTION AGENCY

SITE: **Sauget Sites**
SITE ILD **Area #1**
See CERCLIS

QUAD: Webster Groves, MO-IL
NUMBER: 224 D
DATE: 1974/1988 Wetland

QUAD: Cahokia, IL-MO
NUMBER: 225 C
DATE: 1974/1988 Wetland

QUAD: Valmeyer, IL-MO
NUMBER: 248 D
DATE: 1974/1988 Wetland

QUAD: Oakville MO-IL
NUMBER: 248 A
DATE: 1982/1988 Wetland

15-MILE SURFACE WATER MAP

LEGEND:

Site Location



PPE



Surface Water
Intake



APPENDIX C
USEPA FORM 2070-13



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE See 02 SITE NUMBER CERELIS

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) <u>Sauget Sites Area #1</u>		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER <u>Multiple locations</u>				
03 CITY <u>Sauget/Cahokia</u>		04 STATE <u>IL</u>	05 ZIP CODE <u>62201/62206</u>	06 COUNTY <u>St. Clair</u>	07 COUNTY CODE <u>163</u>	08 CONG DIST <u>21</u>
09 COORDINATES LATITUDE <u>Multiple</u> LONGITUDE _____		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input checked="" type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER _____ <input type="checkbox"/> G. UNKNOWN				

III. INSPECTION INFORMATION

01 DATE OF INSPECTION <u>3/27/91</u> MONTH DAY YEAR	02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	03 YEARS OF OPERATION <u>1932</u> <u>1981's</u> _____ UNKNOWN BEGINNING YEAR ENDING YEAR	
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR _____ (Name of firm) <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR _____ (Name of firm) <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR _____ (Name of firm) <input type="checkbox"/> G. OTHER _____ (Specify)			

05 CHIEF INSPECTOR <u>Tim Murphy</u>	06 TITLE <u>EPS</u>	07 ORGANIZATION <u>IEPA</u>	08 TELEPHONE NO. <u>(217) 782-6760</u>
09 OTHER INSPECTORS <u>Paul Takacs</u>	10 TITLE <u>EPS</u>	11 ORGANIZATION <u>"</u>	12 TELEPHONE NO. <u>() "</u>
<u>Judy Triller</u>	<u>EPS</u>	<u>"</u>	<u>() "</u>
<u>Greg DUNN</u>	<u>EPS</u>	<u>"</u>	<u>() "</u>
<u>Greg Spencer</u>	<u>EPS</u>	<u>"</u>	<u>() "</u>
			<u>()</u>
13 SITE REPRESENTATIVES INTERVIEWED <u>Mike King</u>	14 TITLE <u>Mayor of Cahokia</u>	15 ADDRESS <u>103 Main St. Cahokia, IL 62206</u>	16 TELEPHONE NO. <u>(618) 337-3492</u>
<u>Paul McNamara</u>	<u>Village Planner</u>	<u>"</u>	<u>() "</u>
<u>Ema Locket</u>	<u>Administrator</u>	<u>E. Side Health District 5540 Bunkum Rd., Washington Park, IL</u>	<u>(618) 874-4628</u>
			<u>()</u>
			<u>()</u>
			<u>()</u>
			<u>()</u>

17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION <u>8:30A-6:30P (27th)</u> <u>8:00A-1:40P (28th)</u>	19 WEATHER CONDITIONS <u>windy sunny mild</u> <u>Sunny mild</u>
--	---	---

IV. INFORMATION AVAILABLE FROM

01 CONTACT <u>Tim Murphy</u>	02 OF (Agency/Organization) <u>IEPA</u>	03 TELEPHONE NO. <u>(217) 782-6760</u>		
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM <u>Tim Murphy</u>	05 AGENCY <u>IEPA</u>	06 ORGANIZATION <u>BL/DRM/RPM</u>	07 TELEPHONE NO. <u>(217) 782-6760</u>	08 DATE <u>9/23/92</u> MONTH DAY YEAR



01 STATE	02 SITE NUMBER
See	CERCLIS

☐ A. SOLID ☐ E. SLURRY
☐ B. POWDER, FINES ☐ F. LIQUID
☒ C. SLUDGE ☐ G. GAS
☐ D. OTHER _____

NO. OF DRUMS[illegible]

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	✓	UNKNOWN	
OLW	OILY WASTE	✓		
SOL	SOLVENTS	✓		
PSD	PESTICIDES	✓		
OCC	OTHER ORGANIC CHEMICALS	✓		
IOC	INORGANIC CHEMICALS	✓		
ACD	ACIDS	✓		
BAS	BASES	✓		
MES	HEAVY METALS	✓		

[illegible]

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

IEPA Files for the Dead Creek Sites in St. Clair County
Ecology + Environment's Expand Dead Creek Sites Study May, 1988
(E+E)

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION		I. IDENTIFICATION 01 STATE 02 SITE NUMBER ILD 98061476	
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site) (Sites I/H) <u>Sauget Monsanto Illinois Landfill</u>		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER <u>Falling Springs Rd. at Queeny Ave.</u>	
03 CITY <u>Sauget</u>		04 STATE <u>IL</u>	05 ZIP CODE <u>62201</u>
		06 COUNTY <u>St. Clair</u>	07 COUNTY CODE <u>163</u>
		08 CONG DIST <u>21</u>	
09 COORDINATES LATITUDE <u>38° 35' 22.0"</u> LONGITUDE <u>090° 10' 11.5"</u>		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN	
III. INSPECTION INFORMATION			
01 DATE OF INSPECTION <u>03 28 91</u> <small>MONTH DAY YEAR</small>		02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	
03 YEARS OF OPERATION <u>1931</u> <u>1957</u> <u>UNKNOWN</u> <small>BEGINNING YEAR ENDING YEAR</small>			
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER _____ <small>(Name of firm) (Name of firm) (Name of firm)</small>			

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION		I. IDENTIFICATION 01 STATE 02 SITE NUMBER ILD 981953623	
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site) <u>Dead Creek Area G</u>		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER <u>Queeny Ave</u>	
03 CITY <u>Sauget</u>		04 STATE <u>IL</u>	05 ZIP CODE <u>62201</u>
		06 COUNTY <u>St. Clair</u>	07 COUNTY CODE <u>163</u>
		08 CONG DIST <u>21</u>	
09 COORDINATES LATITUDE <u>38° 35' 17.0"</u> LONGITUDE <u>090° 10' 25.0"</u>		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN	
III. INSPECTION INFORMATION			
01 DATE OF INSPECTION <u>03 28 91</u> <small>MONTH DAY YEAR</small>		02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	
03 YEARS OF OPERATION <u>1952</u> <u>late '70's</u> <u>UNKNOWN</u> <small>BEGINNING YEAR ENDING YEAR</small>			
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER _____ <small>(Name of firm) (Name of firm) (Name of firm)</small>			

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION		I. IDENTIFICATION	
		01 STATE	02 SITE NUMBER
		IL	984809269
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER	
Waggoner Trucking Company (Site L)		1300 Queeny Ave	
03 CITY		04 STATE	05 ZIP CODE
Sauget		IL	62201
06 COUNTY		07 COUNTY CODE	08 CONG DIST
St. Clair		163	21
09 COORDINATES		10 TYPE OF OWNERSHIP (Check one)	
LATITUDE: 38 33 10.0 LONGITUDE: 090 10 20.0		<input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER	
III. INSPECTION INFORMATION			
01 DATE OF INSPECTION		02 SITE STATUS	
3 / 28 / 91 <small>MONTH DAY YEAR</small>		<input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	
03 YEARS OF OPERATION		04 AGENCY PERFORMING INSPECTION (Check at that agency)	
1971 1981 <small>BEGINNING YEAR ENDING YEAR</small>		<input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER	

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION		I. IDENTIFICATION	
		01 STATE	02 SITE NUMBER
		IL	984809251
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER	
H.H. Hall Excavation Pit (Site M)		West End of Walnut Street	
03 CITY		04 STATE	05 ZIP CODE
Cahokia		IL	62201
06 COUNTY		07 COUNTY CODE	08 CONG DIST
St. Clair		163	21
09 COORDINATES		10 TYPE OF OWNERSHIP (Check one)	
LATITUDE: 38 35 05.0 LONGITUDE: 090 10 50.0		<input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER	
III. INSPECTION INFORMATION			
01 DATE OF INSPECTION		02 SITE STATUS	
3 / 28 / 91 <small>MONTH DAY YEAR</small>		<input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	
03 YEARS OF OPERATION		04 AGENCY PERFORMING INSPECTION (Check at that agency)	
1950 UNK <small>BEGINNING YEAR ENDING YEAR</small>		<input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER	

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION		I. IDENTIFICATION	
		01 STATE	02 SITE NUMBER
		IL	982073603
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER	
H.H. Hall Construction Company (Site N)		3500 Block Felling Springs Rd.	
03 CITY		04 STATE	05 ZIP CODE
Cahokia		IL	62206
06 COUNTY		07 COUNTY CODE	08 CONG DIST
St. Clair		163	21
09 COORDINATES		10 TYPE OF OWNERSHIP (Check one)	
LATITUDE: 38 34 26.0 LONGITUDE: 090 10 25.0		<input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER	
III. INSPECTION INFORMATION			
01 DATE OF INSPECTION		02 SITE STATUS	
3 / 28 / 91 <small>MONTH DAY YEAR</small>		<input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	
03 YEARS OF OPERATION		04 AGENCY PERFORMING INSPECTION (Check at that agency)	
1950's UNK <small>BEGINNING YEAR ENDING YEAR</small>		<input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER	

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION		I. IDENTIFICATION 01 STATE 02 SITE NUMBER ILD 984809277	
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site) Dead Creek Segment A		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER North of Queeny Ave.	
03 CITY Sauget		04 STATE 05 ZIP CODE IL 62201	06 COUNTY 07 COUNTY CODE 08 CONG DIST St. Clair 163 21
09 COORDINATES LATITUDE: 38 35 35.0 LONGITUDE: 090 10 15.0		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN	
III. INSPECTION INFORMATION			
01 DATE OF INSPECTION 3 / 28 / 91 <small>MONTH DAY YEAR</small>	02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	03 YEARS OF OPERATION early 1980's UNK UNKNOWN <small>BEGINNING YEAR ENDING YEAR</small>	
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER			

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION		I. IDENTIFICATION 01 STATE 02 SITE NUMBER ILD 980792006	
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site) Dead Creek (Segment B)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER E. Walnut St., N. of Judith LN.	
03 CITY Sauget		04 STATE 05 ZIP CODE IL 62201	06 COUNTY 07 COUNTY CODE 08 CONG DIST St. Clair 163 21
09 COORDINATES LATITUDE: 38 35 09.0 LONGITUDE: 090 10 22.5		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input checked="" type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN	
III. INSPECTION INFORMATION			
01 DATE OF INSPECTION 3 / 28 / 91 <small>MONTH DAY YEAR</small>	02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	03 YEARS OF OPERATION early 1980's UNK UNKNOWN <small>BEGINNING YEAR ENDING YEAR</small>	
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER			

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION		I. IDENTIFICATION 01 STATE 02 SITE NUMBER ILD 984809285	
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site) Dead Creek Segments C-F		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER South of Judith LN.	
03 CITY Cahokia		04 STATE 05 ZIP CODE IL 62206	06 COUNTY 07 COUNTY CODE 08 CONG DIST St. Clair 163 21
09 COORDINATES LATITUDE: 38 33 50.0 LONGITUDE: 090 11 25.0		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input checked="" type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN	
III. INSPECTION INFORMATION			
01 DATE OF INSPECTION 03 / 28 / 91 <small>MONTH DAY YEAR</small>	02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	03 YEARS OF OPERATION early 1980's UNK UNKNOWN <small>BEGINNING YEAR ENDING YEAR</small>	
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER			



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER
See | CERCLIS

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: > 50

02 ☒ OBSERVED (DATE: 3/87)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Groundwater under many of the Sites is contaminated with a variety of organic and inorganic compounds/analytes. See report table 2-5.

01 ☒ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: UNK

02 ☒ OBSERVED (DATE: 3/27/91)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Wetlands are contaminated with PCB's See table 3-3 in report (XIII)

01 ☒ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED: 1587

W/in 1/4 mile

02 ☒ OBSERVED (DATE: 7/16, 17/87)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

10/80

Site G and CS B have a documented release of PNA's and PCB's

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: UNK

02 ☐ OBSERVED (DATE: 7/79)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

5/80

Complaints recieved by IEPA concerning fires and smoldering in Dead Creek

01 ☒ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: UNK

02 ☐ OBSERVED (DATE: 3/28/91)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Residential and School property are w/in the contaminated creek segments

01 ☒ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: UNK

(Address)

02 ☒ OBSERVED (DATE: 1980, 1986, 1991)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Residential yards sampled during the SSI revealed observable release criteria for heavy metals

01 ☒ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: > 50

02 ☐ OBSERVED (DATE: 3/26/87)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Residential wells sampled by E+E showed estimated values of volatiles and also metals

01 ☒ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: 3000

02 ☐ OBSERVED (DATE: 11/90)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

3000 Workers at CERRO Copper are exposed to Site I and have been exposed to CS A (remediated 11/90)

01 ☒ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: See above

02 ☒ OBSERVED (DATE: See above)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

See above



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
See CERCLIS

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

CS B has areas that are devoid of vegetation in northern section

01 ☒ K. DAMAGE TO FAUNA

04 NARRATIVE DESCRIPTION (Include names of species)

02 ☒ OBSERVED (DATE: 8/80)

☐ POTENTIAL

☐ ALLEGED

to IEPA

It has been reported that domestic animals have been effected by the contaminated creek segments (Dog dies due to burns, cats have growths/ lesions and then die).

01 ☒ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE: 10/81
3/83)

☐ POTENTIAL

☐ ALLEGED

Fish in Mississippi River are contaminated w/ Dioxins, PCB's, chlorinated Nitro-benzenes. May or May Not be. Attributable to Area #1

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

(Spills, Runoff, Standing Ponds, Leaking Drums)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED:

04 NARRATIVE DESCRIPTION

No liners on landfills (Site G H/I) or lagoons (L)

01 ☒ N. DAMAGE TO OFFSITE PROPERTY

04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE: 3/28/92)

☐ POTENTIAL

☐ ALLEGED

Yards show attributable contamination of heavy metals See report 3-3 table

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

Overflows from Dead Creek could enter sewer system

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING

04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE: 7/71)

☐ POTENTIAL

☐ ALLEGED

(Site L) direct dumping into Dead Creek by Wagoner Trucking
Random dumping at Site G, through 1970's

Dumping at Site H IN 1981 (J. Tolbird)

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

Many of the residential people complained of illnesses and cancer while sampling

III. TOTAL POPULATION POTENTIALLY AFFECTED: 21587

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., State Reg. Section analysis, reports)

IEPA files for Sauget/St. Clair Co. Dead Creek Sites
E+E report May, 1988



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION
01 STATE See 02 SITE NUMBER CERCLIS

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED <small>(Check all that apply)</small>	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPOES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE <small>(Specify)</small>				
<input type="checkbox"/> H. LOCAL <small>(Specify)</small>				
<input type="checkbox"/> I. OTHER <small>(Specify)</small>				
<input checked="" type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL <small>(Check all that apply)</small>	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT <small>(Check all that apply)</small>	05 OTHER
<input checked="" type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILLS			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input checked="" type="checkbox"/> C. DRUMS, ABOVE GROUND	≈ 30	55 gal @ G	<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input checked="" type="checkbox"/> F. LANDFILL	310,000	yd ³	<input type="checkbox"/> F. SOLVENT RECOVERY	06 AREA OF SITE
<input type="checkbox"/> G. LANDFARM	≈ 1400	yd ³ @ G	<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	≈ 39 <small>(Acres)</small>
<input checked="" type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER <small>(Specify)</small>	
<input type="checkbox"/> I. OTHER <small>(Specify)</small>				

07 COMMENTS

Area of site G. 4.5 ac
H/I 24 ac
L 1 ac
M 2.2 ac
N 2 ac
CS 5 ac

IV. CONTAINMENT

01 CONTAINMENT OF WASTES <small>(Check one)</small>			
<input type="checkbox"/> A. ADEQUATE, SECURE	<input type="checkbox"/> B. MODERATE	<input type="checkbox"/> C. INADEQUATE, POOR	<input checked="" type="checkbox"/> D. INSECURE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.			
No liners on landfills or lagoons			

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
02 COMMENTS IN CS C-F

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, site analysis, reports)

IEPA files for Sangre/St. Clair Co., Dead Creek Sites
E+E report May, 1988



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
See CERCLIS

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check all that apply)

SURFACE WELL
COMMUNITY A. ☒ B. ☐
NON-COMMUNITY C. ☐ D. ☒

02 STATUS

ENDANGERED AFFECTED MONITORED
A. ☐ B. ☐ C. ☐
D. ☒ E. ☐ F. ☐

03 DISTANCE TO SITE

upstream
A. 7 (mi)
B. .009 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☒ B. DRINKING
(Other sources available)
COMMERCIAL, INDUSTRIAL IRRIGATION
(No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL IRRIGATION
(Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER > 50

03 DISTANCE TO NEAREST DRINKING WATER WELL .009 (mi)

04 DEPTH TO GROUNDWATER
26 (ft)

05 DIRECTION OF GROUNDWATER FLOW
W

06 DEPTH TO AQUIFER
OF CONCERN
6 (ft)

07 POTENTIAL YIELD
OF AQUIFER
UNK (gpd)

08 SOLE SOURCE AQUIFER
☒ YES ☐ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

Private wells range from 15 - 50 feet

10 RECHARGE AREA

☒ YES ☐ NO
COMMENTS High Porosity Alluvial
Aquifer

11 DISCHARGE AREA

☒ YES ☐ NO
COMMENTS Mississippi River

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION
DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY
IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:

AFFECTED

DISTANCE TO SITE

Dead Creek Wetland ☒ 0 (mi)
Old Prairie Dupont Creek ☐ 0 (mi)
Mississippi River ☐ 1.5 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE TWO (2) MILES OF SITE THREE (3) MILES OF SITE
A. 12,256 NO. OF PERSONS B. 36,524 NO. OF PERSONS C. 100,602 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

0.0 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

30,000

04 DISTANCE TO NEAREST OFF-SITE BUILDING

.009 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Urban and suburban areas with industrial/commercial zones nearby

See Appendix A + B (Maps in report)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
See CERCLIS

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. 10^{-6} - 10^{-8} cm/sec ☐ B. 10^{-4} - 10^{-6} cm/sec ☐ C. 10^{-4} - 10^{-3} cm/sec ☒ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-8} cm/sec) ☐ B. RELATIVELY IMPERMEABLE (10^{-4} - 10^{-6} cm/sec) ☒ C. RELATIVELY PERMEABLE (10^{-2} - 10^{-4} cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

70-120 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

UNK > (ft)

05 SOIL pH

UNK

06 NET PRECIPITATION

39.5 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.5 (in)

08 SLOPE

SITE SLOPE < 2 %

DIRECTION OF SITE SLOPE

W

TERRAIN AVERAGE SLOPE

< 2 %

09 FLOOD POTENTIAL

protected by 500
SITE IS IN YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

Site in wetland
OTHER

A. (mi)

B. 0 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

9 (mi) downstream
at Rm 165.5
Bald Eagle

ENDANGERED SPECIES:

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. 0 (mi)

B. 0 (mi)

C. (mi) D. 0 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See Appendix A USGS Topo Map

VII. SOURCES OF INFORMATION (Give specific references, e.g., state files, sample analysis, reports)

IDept of Conservation (IDOC) Sensitive Areas Form for Sauget/Cahokia
USGS Topographic Maps
E+E report May, 1988



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
See CERCLIS

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	5	IEPA organics lab in Springfield, IL IEPA inorganics lab in Champaign, IL	May 91
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	13	"	"
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
temp, ph, ^{Specific} conductivity	
	distance from Parks College Building to X110

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF IEPA <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS Appendix A + B

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis reports)

IEPA files for Sauget/Cahokia Dead Creek Sites.
E+E Report May, 1988



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
See CERCLIS

II. CURRENT OWNER(S)

PARENT COMPANY (if applicable)

01 NAME Wiese Planning + Engineering, Inc.	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 1700 Queeny Ave.	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY Sauget	06 STATE IL	07 ZIP CODE 62201	12 CITY 13 STATE 14 ZIP CODE

01 NAME Myrtle + Emily Hankins	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 3110 Mississippi Ave.	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY Sauget	06 STATE IL	07 ZIP CODE 62201	12 CITY 13 STATE 14 ZIP CODE

01 NAME J. Tolbird (Roger's Cartage)	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) Falling Springs Rd.	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY Sauget	06 STATE IL	07 ZIP CODE 62201	12 CITY 13 STATE 14 ZIP CODE

01 NAME Cerro Copper Products	02 D+B NUMBER	08 NAME The Marmon Group	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) Route 3	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY Sauget	06 STATE IL	07 ZIP CODE 62201	12 CITY 13 STATE 14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

IV. REALTY OWNER(S) (if applicable; list most recent first)

01 NAME Leo Sauget	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) (deceased)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY 06 STATE 07 ZIP CODE

01 NAME J. Tolbird (Roger's Cartage)	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) See above	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY 06 STATE 07 ZIP CODE

01 NAME Wagoner Trucking + Ruan Trucking	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) (defunct)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY 06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, satellite analysis, reports)

IEPA files for Sauget/Cahokia Dead Creek Sites
E+E report May, 1988



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
See CERCLIS

II. CURRENT OWNER(S)

PARENT COMPANY (if applicable)

01 NAME Keeley L. Paving + Const. Co.
02 0-9 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 2901 Falling Springs Rd.
04 SIC CODE
05 CITY Cahokia
06 STATE IL
07 ZIP CODE 62206
08 NAME
09 0-9 NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)
11 SIC CODE
12 CITY
13 STATE
14 ZIP CODE

01 NAME Thomas Owen
02 0-9 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 1929 Sandy Ridge Rd.
04 SIC CODE
05 CITY Cahokia
06 STATE IL
07 ZIP CODE 62206
08 NAME
09 0-9 NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)
11 SIC CODE
12 CITY
13 STATE
14 ZIP CODE

01 NAME H. H. Hall Const. Co.
02 0-9 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) Falling Springs Rd.
04 SIC CODE
05 CITY Cahokia
06 STATE IL
07 ZIP CODE 62206
08 NAME
09 0-9 NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)
11 SIC CODE
12 CITY
13 STATE
14 ZIP CODE

01 NAME Private + Municipal *
* Village of Cahokia
02 0-9 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 103 Main St.
04 SIC CODE
05 CITY Cahokia
06 STATE IL
07 ZIP CODE 62206
08 NAME
09 0-9 NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)
11 SIC CODE
12 CITY
13 STATE
14 ZIP CODE

III. PREVIOUS OWNER(S) (Last most recent first)

IV. REALTY OWNER(S) (If address not most recent first)

01 NAME H. H. Hall Const. Co.
02 0-9 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) Falling Springs Rd.
04 SIC CODE
05 CITY Cahokia
06 STATE IL
07 ZIP CODE 62206
08 NAME
09 0-9 NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)
11 SIC CODE
12 CITY
13 STATE
14 ZIP CODE

01 NAME
02 0-9 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
04 SIC CODE
05 CITY
06 STATE
07 ZIP CODE
08 NAME
09 0-9 NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)
11 SIC CODE
12 CITY
13 STATE
14 ZIP CODE

01 NAME
02 0-9 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)
04 SIC CODE
05 CITY
06 STATE
07 ZIP CODE
08 NAME
09 0-9 NUMBER
10 STREET ADDRESS (P.O. Box, RFD #, etc.)
11 SIC CODE
12 CITY
13 STATE
14 ZIP CODE

V. SOURCES OF INFORMATION (City, County, State, Federal, etc.)

See previous page



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
See CERCLIS

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME See table 2-2 in	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) report	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME Waggoner Trucking	02 D+B NUMBER	01 NAME Sauget and Company	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) (defunct)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.) (defunct)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME Ruan Trucking	02 D+B NUMBER	01 NAME Roger's Cartage	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) (defunct)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.) Falling Springs Rd.	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY Sauget	06 STATE 07 ZIP CODE IL

V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, laboratory analysis, reports)

IEPA files for Sauget/Cahokia Dead Creek Sites
E+E report May, 1988



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
See CERCLIS

II. PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input checked="" type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION See Part II	02 DATE 11/90	03 AGENCY _____
01 <input type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
See CERCLIS

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☒ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY USEPA

Fences have been erected around CS B, Site G, Site M

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

III. SOURCES OF INFORMATION (Cite specific references, e.g., State files, laboratory reports, reports)

IEPA files for Saugat/Cahokia Dead Creek Sites
E+E report May, 1988



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
See CERCLIS

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Consent Decree was administered for Cerro Copper to remove contaminated soils and sediment at Dead Creek Seg A.
Cerro Copper spent 13.1 million dollars to remove 27,500 TONS of waste to TSCA + RCRA permitted facilities

Satisfies
Satisfies 2 of 3 requirements of an effective removal
1) wastes removed off site (OK)
2) wastes taken to approved RCRA/TSCA regulated facilities (OK)
→ 3) Work plan was submitted (May '86) prior to Consent decree + clean-up (timeliness)

III. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

Site Investigation/Feasibility Study for Creek Segment A June 1990
The Advent Group, Inc.

APPENDIX D
TARGET COMPOUND LIST

TARGET COMPOUND LIST

Volatile Target Compounds

Chloromethane	1,2-Dichloropropane
Bromomethane	cis-1,3-Dichloropropene
Vinyl Chloride	Trichloroethene
Chloroethane	Dibromochloromethane
Methylene Chloride	1,1,2-Trichloroethane
Acetone	Benzene
Carbon Disulfide	trans-1,3-Dichloropropene
1,1-Dichloroethene	Bromoform
1,1-Dichloroethane	4-Methyl-2-pentanone
1,2-Dichloroethene (total)	2-Hexanone
Chloroform	Tetrachloroethene
1,2-Dichloroethane	1,1,2,2-Tetrachloroethane
2-Butanone	Toluene
1,1,1-Trichloroethane	Chlorobenzene
Carbon Tetrachloride	Ethylbenzene
Vinyl Acetate	Styrene
Bromodichloromethane	Xylenes (total)

Base/Neutral Target Compounds

Hexachloroethane	2,4-Dinitrotoluene
bis(2-Chloroethyl) Ether	Diethylphthalate
Benzyl Alcohol	N-Nitrosodiphenylamine
bis(2-Chloroisopropyl) Ether	Hexachlorobenzene
N-Nitroso-Di-n-Propylamine	Phenanthrene
Nitrobenzene	4-Bromophenyl-phenylether
Hexachlorobutadiene	Anthracene
2-Methylnaphthalene	Di-n-Butylphthalate
1,2,4-Trichlorobenzene	Fluoranthene
Isophorone	Pyrene
Naphthalene	Butylbenzylphthalate
4-Chloroaniline	bis(2-Ethylhexyl) Phthalate
bis(2-chloroethoxy) Methane	Chrysene
Hexachlorocyclopentadiene	Benzo(a) Anthracene
2-Chloronaphthalene	3,3'-Dichlorobenzidene
2-Nitroaniline	Di-n-Octyl Phthalate
Acenaphthylene	Benzo(b) Fluoranthene
3-Nitroaniline	Benzo(k) Fluoranthene
Acenaphthene	Benzo(a) Pyrene
Dibenzofuran	Indeno(1,2,3-cd) Pyrene
Dimethyl Phthalate	Dibenz(a,h) Anthracene
2,6-Dinitrotoluene	Benzo(g,h,i) Perylene
Fluorene	1,2-Dichlorobenzene
4-Nitroaniline	1,3-Dichlorobenzene
4-Chlorophenyl-phenylether	1,4-Dichlorobenzene

Acid Target Compounds

Benzoic Acid	2,4,6-Trichlorophenol
Phenol	2,4,5-Trichlorophenol
2-Chlorophenol	4-Chloro-3-methylphenol
2-Nitrophenol	2,4-Dinitrophenol
2-Methylphenol	2-Methyl-4,6-dinitrophenol
2,4-Dimethylphenol	Pentachlorophenol
4-Methylphenol	4-Nitrophenol
2,4-Dichlorophenol	

Pesticide/PCB Target Compounds

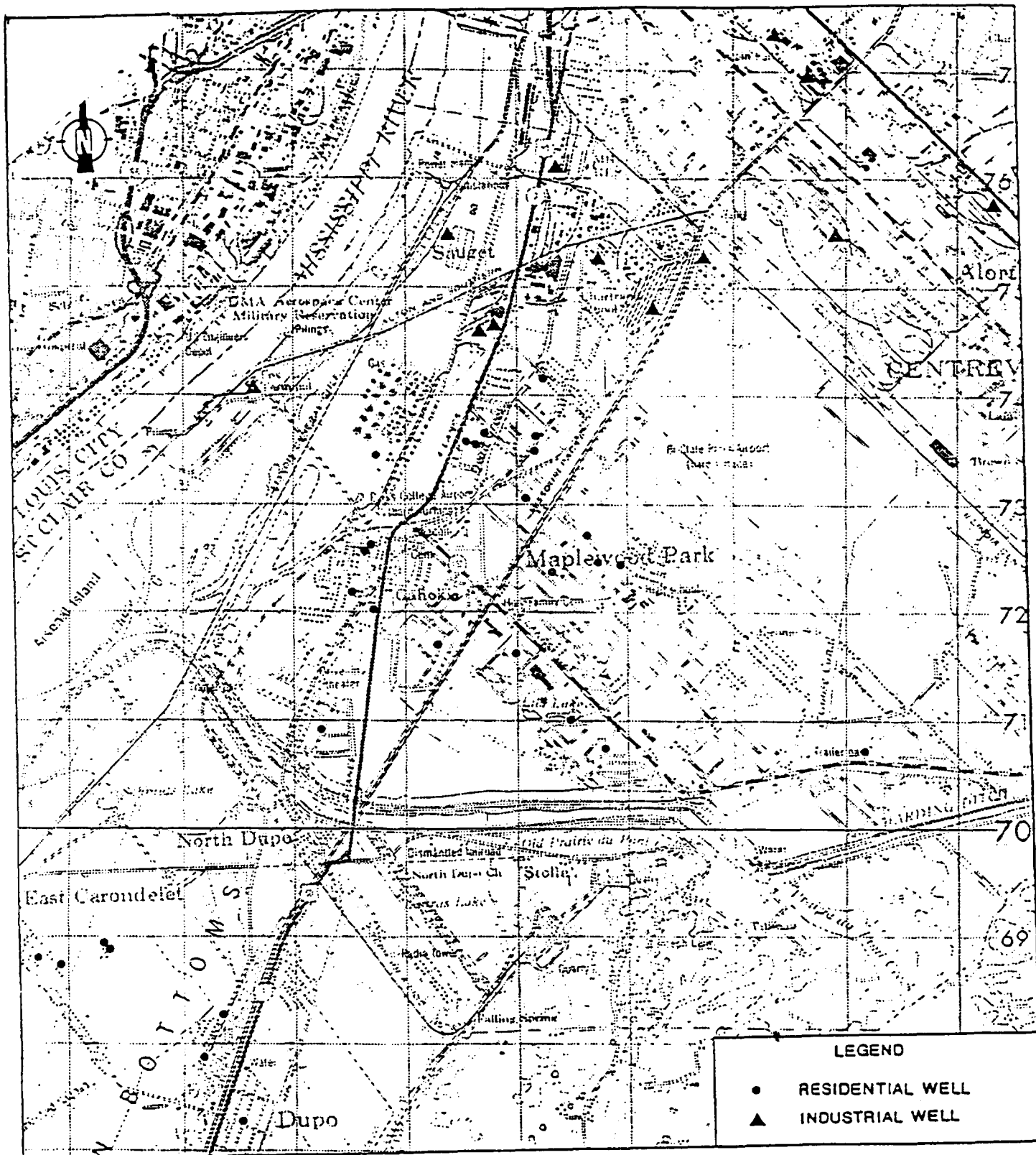
alpha-BHC	Endrin Ketone
beta-BHC	Endosulfan Sulfate
delta-BHC	Methoxychlor
gamma-BHC (Lindane)	alpha-Chlorodane
Heptachlor	gamma-Chlorodane
Aldrin	Toxaphene
Heptachlor epoxide	Aroclor-1016
Endosulfan I	Aroclor-1221
4,4'-DDE	Aroclor-1232
Dieldrin	Aroclor-1242
Endrin	Aroclor-1248
4,4'-DDD	Aroclor-1254
Endosulfan II	Aroclor-1260
4,4'-DDT	

Inorganic Target Compounds

Aluminum	Manganese
Antimony	Mercury
Arsenic	Nickel
Barium	Potassium
Beryllium	Selenium
Cadmium	Silver
Calcium	Sodium
Chromium	Thallium
Cobalt	Vanadium
Copper	Zinc
Iron	Cyanide
Lead	Sulfide
Magnesium	Sulfate

APPENDIX E

WELL LOGS



SOURCE: Ecology and Environment, Inc., 1988.

0 1 2 3 4 MILES

RESIDENTIAL AND INDUSTRIAL WELL LOCATIONS IN THE DCP AREA

The following is an explanation of the ISWS Private Well Database Printout.

1-3 101	4-8 02211206	9-18 JUN BURNS	11-12 HACKER	13-14 021090	15-16 X	17-18 2932	19-20 16	21-22 L	23-24 DC
------------	-----------------	-------------------	-----------------	-----------------	------------	---------------	-------------	------------	-------------

Columns	Field Length	Name	Description
1-3	3	FIPS	County Code Number

FIPS means Federal Information Processing System and is a Federal number to designate a county.

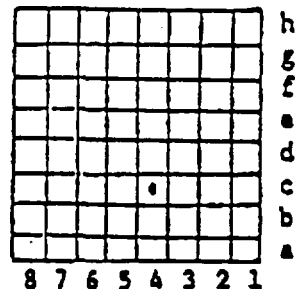
4-8	5	SGS County number
-----	---	-------------------

SGS County number is the Geological Survey ID# that is assigned as an internal identification number.

9-18	10	Location	Township columns 9-11	Range columns 12-14	Section columns 15-16	Plot columns 17-18

The location system uses the township, range, and section. The location consists of five parts: county, township, range, section, and coordinate within the section. Sections are divided into rows of 1/8-mile squares. Each 1/8-mile square contains 10 acres and corresponds to a quarter of a quarter of a quarter section. A normal section of 1 square mile contains 8 rows of 1/8-mile squares; an odd-sized section contains more or fewer rows. Rows are numbered from east to west and lettered from south to north as shown in the diagram.

St. Clair County
T.2N., R.10W.
Sec. 23



The location of the well shown above is STC 2N10W-23.4c. Where there is more than one well in a 10-acre square they are identified by arabic numbers after the lower-case letter in the well number.

Columns	Field Length	Name	Description
93-94	2	Well type -	A two letter code indicating the type of well Blank - Assumed drilled BD Bored and dug DU Dug (being phased out) DR Driven SP Sand point SG Spring
95-96	2	Aquifer type -	A two letter code indicating aquifer type Blank - Undeterminable BR Bedrock UN Unconsolidated

The data in the Private Well Inventory Database is a listing of those non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, from chemical analysis reports, from well sealing forms or well inventory forms from the 1930-34 well survey and other special projects. The accuracy of this data is controlled by those who submitted the form. Information in the private well database has not been field verified.

Columns	Field Length	Name	Description
19-48	30	Owner	
49-68	20	Driller	
69-75	7	Date	Month columns 69-70 Day columns 71-72 Century columns 73 Year columns 74-75
76	1	Permit code letter indicates agency which issued permit #. M Mines and Minerals (after 1988 only observation wells and irrigation wells) P Public Health - all non-community supplies E EPA - Community supplies N No fee X Undetermined	
77-82	6	Permit number	
83-86	4	Depth (in feet)	
87-90	4	Record type - Indicates paper source that documents the well exists, since records were collected before well log submittal was required. L Log A Affidavit C Chemical analysis I Inventory X Indicates comment in owner field something unusual	
91-92	2	Well use - A two letter code indicating the usage of the well CH Commercial CO Conservation DO Domestic IN Industrial IR Irrigation MO Monitoring MU Municipal NC Non-Community OB Observation PK Park SC School ST State	

163	01N09N047FLALUMINER E	LAYNE WESTERN	0000943	29 C	DU
163	01N09N04 JC RR A YARD	BOORMAN	0400947	105 L	CM
163	01N09N081ABARBEAU E	DS DRILL	0901977N065458207 L		DO
163	01N09N081COLIVER N		0911974N032393140 L		DO
163	01N09N097EPIAT E		0000943	27 C	DU
163	02N09N0750CIRCLE PKG CC	WATSON	0200942	120 L	CM
163	02N09N0750CIRCLE PKG CO	LUHR	0000942	112 IC	CM
163	02N09N0750CIRCLE PKG CO	LUHR	0719946	115 IC	CM
163	02N09N0760CIRCLE PKG CO		0000941	111 LC	CM
163	02N09N0760CIRCLE PKG CO		0000906	100 L	CM
163	02N09N0760CIRCLE PKG CO	BUTLER	0421953	116 L	CM
163	02N09N0760CIRCLE PKG CO	LAYNE WESTERN	0000948	106 L	CM
163	02N09N0770CIRCLE PKG CO	FRANK	0322957	109 L	CM
163	02N09N0770CIRCLE PKG CO	LUHR	0304956	106 LC	CM
163	02N09N0770CIRCLE PKG CO		0000943	110 C	CM
163	02N09N0870CIRCLE PKG CO	LAYNE WESTERN	0914972N016352115 L		CM
163	02N09N0870CIRCLE PKG CO	RUESTER	1100983N109867117 L		CM
163	02N09N0870CIRCLE PKG CO	WATSON	0900941	115 L	CM
163	02N09N0920CIRCLE PKG CO		0000936	96 C	CM
163	02N09N0920CIRCLE PKG CO	WATSON	0300946	98 LC	CM
163	02N09N1030CIRCLE PKG CO		0000942	122 C	CM
163	02N09N1030CIRCLE PKG CO		0000942	124 C	CM
163	02N09N1030CIRCLE PKG CO		0000943	122 C	CM
163	02N09N1030CIRCLE PKG CO		0000943	124 C	CM
163	02N09N1030CIRCLE PKG CO	ST CH DRILL	1208987N137981100 L		CM
163	02N09N1030CIRCLE PKG CO		0900941	98 L	DO
163	02N09N1030CIRCLE PKG CO		0000930	110 C	DO
163	02N09N1030CIRCLE PKG CO		0000934	C	PK
163	02N09N1030CIRCLE PKG CO		0200943	116 LC	CM
163	02N09N1030CIRCLE PKG CO	WATSON	0500939	59 L	CM
163	02N09N1030CIRCLE PKG CO	WATSON	0200947	105 L	CM
163	02N09N1030CIRCLE PKG CO		0000939	115 LC	CM
163	02N09N1030CIRCLE PKG CO		0000930	110 C	PK
163	02N09N1030CIRCLE PKG CO	THORPE	0400929	117 L	CM
163	02N09N1030CIRCLE PKG CO	LAYNE WESTERN	0000947	116 LX	CM
163	02N09N1030CIRCLE PKG CO	THORPE	0000947	114 L	CM
163	02N09N1030CIRCLE PKG CO	THORPE	0000947	115 L	CM
163	02N09N1030CIRCLE PKG CO	THORPE	0400929	113 L	CM
163	02N09N1030CIRCLE PKG CO	LAYNE WESTERN	0000947	117 LI	CM
163	02N09N1030CIRCLE PKG CO		0000928	100 C	CM
163	02N09N1030CIRCLE PKG CO	THORPE	0000947	114 IC	CM
163	02N09N1030CIRCLE PKG CO		0000949	84 C	CM
163	02N09N1030CIRCLE PKG CO	WATSON	0000944	91 C	CM
163	02N09N1030CIRCLE PKG CO	ST CH DRILL	0000943	116 CL	CM
163	02N09N1030CIRCLE PKG CO		1029986N126802100 L		CM
163	02N09N1030CIRCLE PKG CO		0000933	115 LC	CM
163	02N09N1030CIRCLE PKG CO		0000943	104 C	CM
163	02N09N1030CIRCLE PKG CO		0503952	106 L	CM
163	02N09N1030CIRCLE PKG CO		1026950	110 L	CM
163	02N09N1030CIRCLE PKG CO		0000943	104 C	CM
163	02N09N1030CIRCLE PKG CO		0000946	720 C	CM
163	02N09N1030CIRCLE PKG CO		0000944	100 C	IN
163	02N09N1030CIRCLE PKG CO	WATSON	1000941	83 L	CM
163	02N09N1030CIRCLE PKG CO	ST CH DRILL	0727777N063762114 L		DO
163	02N09N1030CIRCLE PKG CO	KORHEN	0423984N11312561 L		IN
163	02N09N1030CIRCLE PKG CO		97 C	CM	
163	02N09N1030CIRCLE PKG CO		1060940	1215L	IN
163	02N09N1030CIRCLE PKG CO		0119981N09811132 L		DU

163	02N10W263DLEWIN MATHES	0000942	110 C	CM
163	02N10W263E MONSANTO CHEM	0100942	110 LC	IN
163	02N10W263E MONSANTO CHEM	1000939	105 LC	IN
163	02N10W263E MONSANTO CHEM	0100942	105 LC	CM
163	02N10W263E MATHES	0600948	101 L	CM
163	02N10W264E MONSANTO CHEM	0000947	109 C	IN
163	02N10W264E MONSANTO CHEM	1000939	105 LC	IN
163	02N10W264E MONSANTO CHEM	0200943	104 LC	IN
163	02N10W265D-FERRC COPPER BRASS	0000970	111 CI	CM
163	02N10W265D PARLING CO	0000939	70 LC	CM
163	02N10W266E MONEST RUBBER CO	0300951	112 LC	CM
163	02N10W268A CLAYTON CHEM CO	0225983	10620890	L CM
163	02N10W268A CLAYTON CHEM CO	0412976	104548078	L CM
163	02N10W268A MONEST RUBBER	0906968	1004859115	LC CM
163	02N10W270E MONSANTO CHEM	0000952	100 L	IN
163	02N10W27 MONEANTO CHEM	0801952	99 L	IN
163	02N10W27 MONSANTO CHEM	0826952	97 L	IN
163	02N10W275E MONSANTO CHEM	0600959	101 L	IN
163	02N10W273E MONSANTO CHEM	0000952	102 I	IN
163	02N10W3066AP BRACERY	0500946	120 L	CM
163	02N10W331F CARBELL ELEVATOR	0600952	105 L	CM
163	02N10W333F HOBIL OIL	021794H	1117196	L IN
163	02N10W34 PHILLIPS PETRO	0000900	23 L	CM
163	02N10W34 US ESWT	0000000	L	RM
163	02N10W342F PHILLIPS PETRO	0500978	100 IC	CM
163	02N10W342F PHILLIPS PETRO	042979H	1072589102	L CM
163	02N10W3428F PHILLIPS PETRO	0000943	73 C	CM
163	02N10W345F CORPS OF ENGINEERS	1015947	102 L	CM
163	02N10W355AUP OIL AND READY CONCRETE	1107977	1068630105	L CM

WATSON

WATSON

LUHR

THORPE

ST CH DRILL

ST CH DRILL

LUHR

RANNEY

RANNEY

RANNEY

LUHR

RANNEY

WATSON

WATSON

FUESTER

WATSON

LAYNE WESTERN

RUESTER

ST CH DRILL

Plotted
MAR 15 37

322

LOG OF WATER WELL

American Zinc Co. - Monmouth

Property owner United Engineers & Constructors, Inc., P. St. Louis Well No. 6

Drilled by H. L. Watson (Faulkner Mill) Year Nov. 1940

Formations passed through	Thick-ness	Depth of Bottom
<u>clay + Mud</u>	<u>15</u>	<u>15</u>
<u>fine sand</u>	<u>60</u>	<u>75</u>
<u>rock water bearing formation</u>	<u>30</u>	<u>105</u>
<u>quartz sand to 100 ft.</u>	<u>2</u>	<u>107</u>

[Continue on back if necessary]

Shaded in _____ at _____ to _____ ft.

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. 34 ft.

Tested capacity 1500 gal. per min. Temperature _____ °F.

Water lowered to _____ ft. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen Coole

120 Diam. 16 Length 30' Bottom set at _____ ft.

[Show location in Section Plat]

Township name _____ Elev. _____ Sec. 23

Description of location SE, SE 1/4, Sec 23 Twp. 2N

T 2N, R 10W Rge. 10W

Location by known monument _____

County St. Clair

For Illinois State Geological Survey NO ENVELOPE Index: 23-2N-10W

251

LOG OF WATER WELL

Property owner United Engineers & Constructors, Inc., P. St. Louis Well No. 7

Drilled by Watson (Moretti & Corlidge) Year Jan. 1942

Formations passed through	Thick-ness	Depth of Bottom
<u>clay</u>	<u>5</u>	
<u>fine sand</u>	<u>45</u>	<u>50</u>
<u>coarse sand</u>	<u>25</u>	<u>75</u>
<u>gravel</u>	<u>30</u>	<u>105</u>

COUNTY No. 1929

[Continue on back if necessary]

Finished in _____ at _____ to _____ ft.

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. 33' 6" ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen _____

Slot 40+50 Diam. 16" Length 30' Bottom set at _____ ft.

[Show location in Section Plat]

Township name _____ Elev. 404 Sec. 23

Description of location SE, SE 1/4, T 2N, R 10W Twp. 2N

800' N 90° 10' 7000' N 30° 35' Rge. 10W

Location by known monument _____

County St. Clair

For Illinois State Geological Survey NO ENVELOPE Index: 23-2N-10W

LOG OF WATER WELL

Property owner American Fire Co. Well No. 8

by H. L. Watson Year Feb. 1946

Formations passed through	Thick- ness	Depth of Bottom
<u>sands</u>	<u>20</u>	<u>20'</u>
<u>rich sand</u>	<u>30</u>	<u>50'</u>
<u>and</u>	<u>16</u>	<u>66'</u>
<u>ed. sand</u>	<u>10</u>	<u>76</u>
<u>in log</u>	<u>26</u>	<u>102</u>
TD = 102		

[Continue on back if necessary]

Finished in _____ at _____ to _____ ft.

with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. _____ ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen Cole

Diam. 16 Length 30' Bottom set at _____ ft.

[Show location in Section Plat]

Township name _____ Elev. _____ Sec. 23

Description of location SE, SE Sec. 23 Twp. 2N

T2N, R10W Rge. 10W

Location by Shoreline Water Div.

County St. Clair

LAIR No. 23-2N-10W Index:

for Illinois State Geological Survey

LOG OF WATER WELL

Property owner American Fire Co. Well No. 9

Drilled by H. L. Watson (g.w. Finley) Year Nov. 1950

Formations passed through	Thick- ness	Depth of Bottom
<u>Mud</u>	<u>35</u>	<u>35</u>
<u>Sand</u>	<u>45</u>	<u>80</u>
<u>Medium sand</u>	<u>20</u>	<u>100</u>
<u>sand & coarse gravel</u>	<u>4</u>	<u>104</u>
TD = 104'		

[Continue on back if necessary]

Finished in _____ at _____ to _____ ft.

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. _____ ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen _____

Slot _____ Diam. 40" Length 60' Bottom set at _____ ft.

[Show location in Section Plat]

Township name _____ Elev. _____ Sec. 23

Description of location SW, SE Sec. 23 Twp. 2N

T2N, R10W Rge. 10W

Location by Shoreline Water Div.

County St. Clair

LAIR No. 23-2N-10W Index:

for Illinois State Geological Survey



(575-5M-7-23)

TOWNSHIP

MAP No. 4W

Union Electric Light and Power 10W

100 ft. S. of North property Line

50 ft. E. of Eastern Inner

Harbor Line

HOLE No. 6

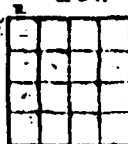
N

Proj.

23

TOR

DATE DRILLED



COUNTY NO. 122	THICKNESS		DEPTH	
	FEET	IN.	FEET	IN.
Water	16		16	
and, fine	12		28	
and, coarse	10		38	
and, very coarse	10		48	
1/2 in. gravel				
and, coarse	27		75	
and, coarse	4		79	
5% 1/2 in. gravel				
and, coarse	4		89	
25% 1/2 in. gravel				
and, coarse	3		92	
40% 3 in. gravel				
and with gravel	12	8	104	8
plus 76.06 rock				

St. Clair

Index No.

ALL RECORD

Projected 23-2N-10W



(575-5M-7-23)

TOWNSHIP

MAP No. 4W

Cahokia Union Electric Light & Power 10W

FARM 100 ft. S. of N. property Line on

AUTHORITY Eastern Inner Harbor Line.

ELEVATION

HOLE No. 7

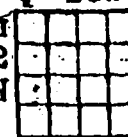
N

Proj.

23

COLLECTOR

DATE DRILLED



No.	COUNTY NO. 123	THICKNESS		DEPTH	
		FEET	IN.	FEET	IN.
	Water	35		35	
	Sand, fine	5		40	
	Sand, coarse	10		50	
	5% 2 in. gravel				
	Sand, coarse	15		65	
	15% 1/8 in. gravel				
	Sand, coarse	12		77	
	20% 1 1/2 and 10%				
	1/8 in. gravel				

St. Clair

Index No.

County

DRILL RECORD

Projected 23-2N-10W

ILLINOIS GEOLOGICAL SURVEY, URBANA

Page 2

ILLINOIS GEOLOGICAL SURVEY, URBANA

T # NF 08825	Thickness	Top	Bottom
test hole was first drilled to a depth of 111', then filled in with sand and later re-drilled with a larger bit. Both records follow.			
HOLE			
		0	11
fine sand brown		12	21
fine sand brown		22	30
fine sand gray		31	41
medium sand gray		42	51
fine sand gray with pea gravel		52	56
fine sand gray with pea gravel		57	61
fine sand gray with pea gravel		62	86
coarse sand gray with 3/8" gravel		87	91
coarse sand gray with 1/2" gravel		92	96
coarse sand gray with 1/2" gravel		97	101
coarse sand gray with 1/2" gravel		102	104
coarse sand gray with 1/2" gravel		105	111
			TD
RECORD			
		0	18
coarse gray			20
coarse gray with gravel			25
fine			30
coarse gray with gravel			35
coarse gray with gravel			40
coarse gray with 1" gravel			45
coarse gray with 1" gravel		55	60
coarse gray with 3/4" gravel		65	70

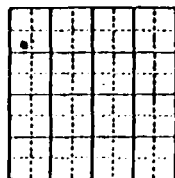
Luhr Brothers, Inc.

Cerro Copper & Brass Co. NO. 1

July 10, 1970

COUNTY NO. 3208

Company



26-2N-10W

1000' N line, 400' W line of NW

ST. CLAIR

	Thickness	Top	Bottom
Sand very coarse gray			75
Sand very coarse gray with cobbles to 5"		80	110 1/2 TD
Well Casing:			
Material - Steel coated with bituminous			
Diameter: 20" outside diameter			
Length - 78.73'			
Wall Thickness - .075			
Final Casing Elevation Above Grade: 1'			
Size of Drilled Hole:			
40" to 20"			
38" to bottom			
Well Screen:			
Material - Stainless steel #304			
Diameter - 20" nominal			
Length - 31.82			
Slot Size - .100			
Type Make - UOP Johnson			
Depth of Screen set at 110.55'			
Gravel Filter:			
Used 23 tons Muscatine, 1/16" - 3/16"			
No. 3			
Wall Thickness - 8 1/2"			
Feet Above Screen - 26'			
Static Level: 23.86'			
S.S. # 57106.			

Luhr Bros., Inc.

ST. CLAIR

Cerro Copper & Brass Co. '1

26-2N-10W

LOG OF WATER WELL

Layne & Bowler Company
Monsanto Chemical Works NO. 1
FILED May 8, 1920 COUNTY NO. 1741
BY Layne & Bowler Co.
N 410' ±
+
ST. C R Project

LOG OF WATER WELL

Start well

Property owner Monsanto Chem. Co. Well No. #1

Drilled by Layne-Westing (F. Sallee) Year Feb. 1948

Formations passed through	Thickness	Depth of Bottom
Soil Fill	1	1
Cinder fill	4	5
Cinders, blew, green clay	5	10
Cinders + fine black sand	5	15
Fine black sand + clay	5	20
" " " streaked mid grey sand	5	25
Fine Black mudclay sand. hard to get sample	20	45
med. coarse gray sand	10	55
Coarse gray sand	5	60
Fine, pebbly, gray-brown sand full of iron boulders	14	74
Sand + gravel, packed w/ much fine sand	3	77
Packed sand, gravel & boulders	3	80
Packed sand, gravel + boulders	13	93
Sand + boulders	9	102
(Formation in general is very tight)		TD

[Continue on back if necessary]

Finished in _____ at _____ ft.
Cased with _____ inch _____ from 0 to _____ ft.
and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. _____ ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen _____

Slot _____ Diam. _____ Length _____ Bottom set at _____ ft.

[Show location in Section Plat]

Township name _____ Elev. 410 Sec. 26
TOPO

Description of location SW NE Sec. 26, Twp. N
T 2 N, R 10 W Rge. 10 W

Location of water _____

Signed _____ County _____

NO ENVELOPE

26-21 OW



ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
fish sandy and blue silt		0	15
ey sand little silt		15	20
ey sand		20	25
le and grey sand		25	30
ne grey sand		30	35
ne grey sand and blue silt		35	40
ne blue and grey sand		40	45
recovery wash samole. Fine blue			
and grey sand		40	50
recovery wash sample. fine blue			
and grey sand.		50	55
ne blue sand, No recovery		55	60
ne sand and wood no recovery		60	65
ey and blue sand. No recovery		65	70
ne blue sand. No recovery		70	75
ne blue sand. No recovery		75	80
dium blue sand. No recovery		80	85
ked grey and blue sand no recovery		85	90
ked grey and blue sand. No recovery		90	95
ked blue and grey sand. Could not			
drive sample Barrell. Felt like			
gravel		95	100
ne and grey sand. No spoon sample			
taken.		100	105
ne and redish sand. no spoon sample			
taken. Drove casing to 110'4". Set			
well screen at 108'11". Could not get			
any deeper as sand was running under			
casing.		105	110
cal Depth			110'4"
			TD

ocation plat filed.
S. # 29900

Wabash Drilling Co.
Monsanto Chemical Co.
November 1956

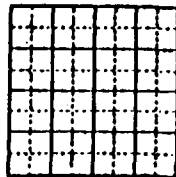
NO. SR-2
COUNTY NO. 1987

Wabash Drilling Co.
412/5' refusal (MSL)

680'W of 90° 10'W longitude, 4310'W
of 35° 35' north latitude.

ST. CL A

Projected 26- 2N-10W



See fresh Bufo
(in Kelly)

Photo 1F88

Plotted in photo

LOG OF WATER WELL

Property owner Monsanto Chem. Co. (Plant B) Well No. 12

Drilled by H. C. Watson

Year

Formations passed through	Thick- ness	Depth of Bottom
<u>No log</u>	<u>70</u>	
<u>Fine sand</u>	<u>5</u>	<u>25</u>
<u>Coarse sand + gravel</u>	<u>5</u>	<u>80</u>
<u>Coarse sand + gravel</u>	<u>5</u>	<u>85</u>
<u>" " " "</u>	<u>5</u>	<u>90</u>
<u>" " " "</u>	<u>5</u>	<u>95</u>
<u>" " " "</u>	<u>5</u>	<u>100</u>
<u>Sand + gravel</u>	<u>5</u>	<u>105</u>
<u>" " " "</u>	<u>5</u>	<u>110</u>
<u>Fast boulders</u>	<u>2</u>	<u>112</u>

(Continue on back if necessary)

Finished in _____ to _____ ft.

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. 39'6" ft.

Tested capacity 1250 gal. per min. Temperature _____ °F.

Water lowered to _____ ft. _____ in. _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen Johnson

Slot 60-80-100 Diam. 16 Length 27 1/2' Bottom set at _____ ft.

(Show location in Section Plat)

Township name _____ Elev. _____

Description of location SE, NE Sec. 26

T 2 N R 10 W

Location by Brown

Signed E. CLAIR County St. Clair

Index: 26-2N OW

LOG OF WATER WELL

#17

Property owner Monsanto Chem. Co.Well No. 9Drilled by H. L. Watson (Walg)Year July, 1941

Formations passed through	Thick- ness	Depth of Bottom
ill	10	10
nd	8	18
ellow sand	10	28
ay sand (getting coarser)	35	63
20 sand	15	78
40 gravel	5	83
50 "	5	88
60 "	17	105 TD

[Continue on back if necessary]

Holed in _____ to _____ ft.

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Hole below casing _____ inch. Static level from surf. 30 ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft. _____ in. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen JohnsonSlot _____ Diam. 1/6 Length 30' Bottom set at _____ ft.

[Show location in Section Plat]

Ship name _____ Elev. _____ Sec. 26Description of location SW, NE Sec. 26,T 2 N, R 10 WStation by Groundwater Div. of U.S. Geol. Surv.County St. ClairIndex: 26-2N-10W

Plotted on photo

LOG OF WATER WELL

Property owner Monsanto Chem. Co.Well No. 19

(80' S + E of main entrance gate)

N.W. # 2Drilled by Wayne Western (Z. Baller)Year Aug. 1948

Formations passed through	Thick- ness	Depth of Bottom
Cinder + clay fill	2	2
Brown sand	14	16
gray + blue clay	2	18
Brown dirty sand	27	45
Med. gray sand	5	50
Med. fine clammy gray sand	5	55
Med. coarse sand + gravel, much rotten wood	6	61
Coarse sand + gravel	5	66
Black med sand, some gravel	7	73
Coarse sand + gravel	2	75
Coarse brown sand	5	80
Med. brownish gray sand + boulders	4	84
Coarse gray sand	16	90
" " " + gravel	18	108

[Continue on back if necessary]

Finished in _____ to _____ ft.

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. _____ ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft. _____ in. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen ShuttleSlot _____ Diam. _____ Length 25 Bottom set at _____ ft.

[Show location in Section Plat]

Township name _____ Elev. _____ Sec. 26Description of location NE, NE Sec. 26,T 2 N, R 10 WSigned CLAIR County St. Clair

by for Illinois State Geological Survey

Index: 26-2N-10WIndex: 26-2N-10W

1589
LOG OF WATER WELL

435

Property owner Midwest Rubber Reclaiming Co. Well No. 2

Drilled by George (Morgan) Year ?

Formations passed through	Thick-ness	Depth of Bottom
only soil	27	27
very silt	8	35
fine sand + pea gravel	8	43
fine sand + silt	21	64
very coarse sand	6	70
fine sand, wood, ^{stump} logs, etc.	11	81
very coarse sand	5	86
very coarse sand + gravel	28	114

[Continue on back if necessary]

Finished in _____ to _____ ft.

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. 25' 6" ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen _____

Slot _____ Diam. _____ Length _____ Bottom set at _____ ft.

[Show location in Section Plat]

Township name _____ Elev. _____ Sec. 26

Description of location _____ Twp. 2N

Location by _____ Rge. 10W

County St. Clair

NO ENVELOPE 26-2N-10W

Index: _____

LOG OF WATER WELL

Property owner Midwest Rubber Co. Well No. 3

Drilled by George (Morgan) Year 1951

Formations passed through	Thick-ness	Depth of Bottom
Hard fill	3	3
Fine dry sand + silt	34	37
Med. fine sand very dirty	14	51
Med. coarse sand, dirty	11	62
Building sand some fine gravel	9	71
Clean coarse sand	23	94
Coarse sand + boulders	8	102
Med. coarse sand	10	112

[Continue on back if necessary]

Finished in _____ to _____ ft.

Cased with _____ inch _____ from 0 to _____ ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing _____ inch. Static level from surf. 35' ft.

Tested capacity _____ gal. per min. Temperature _____ °F.

Water lowered to _____ ft. in _____ hrs. _____ min.

Length of test _____ hrs. _____ min. Screen _____

Slot _____ Diam. _____ Length _____ Bottom set at _____ ft.

[Show location in Section Plat]

Township name _____ Elev. _____ Sec. 26

Description of location _____ Twp. 2N

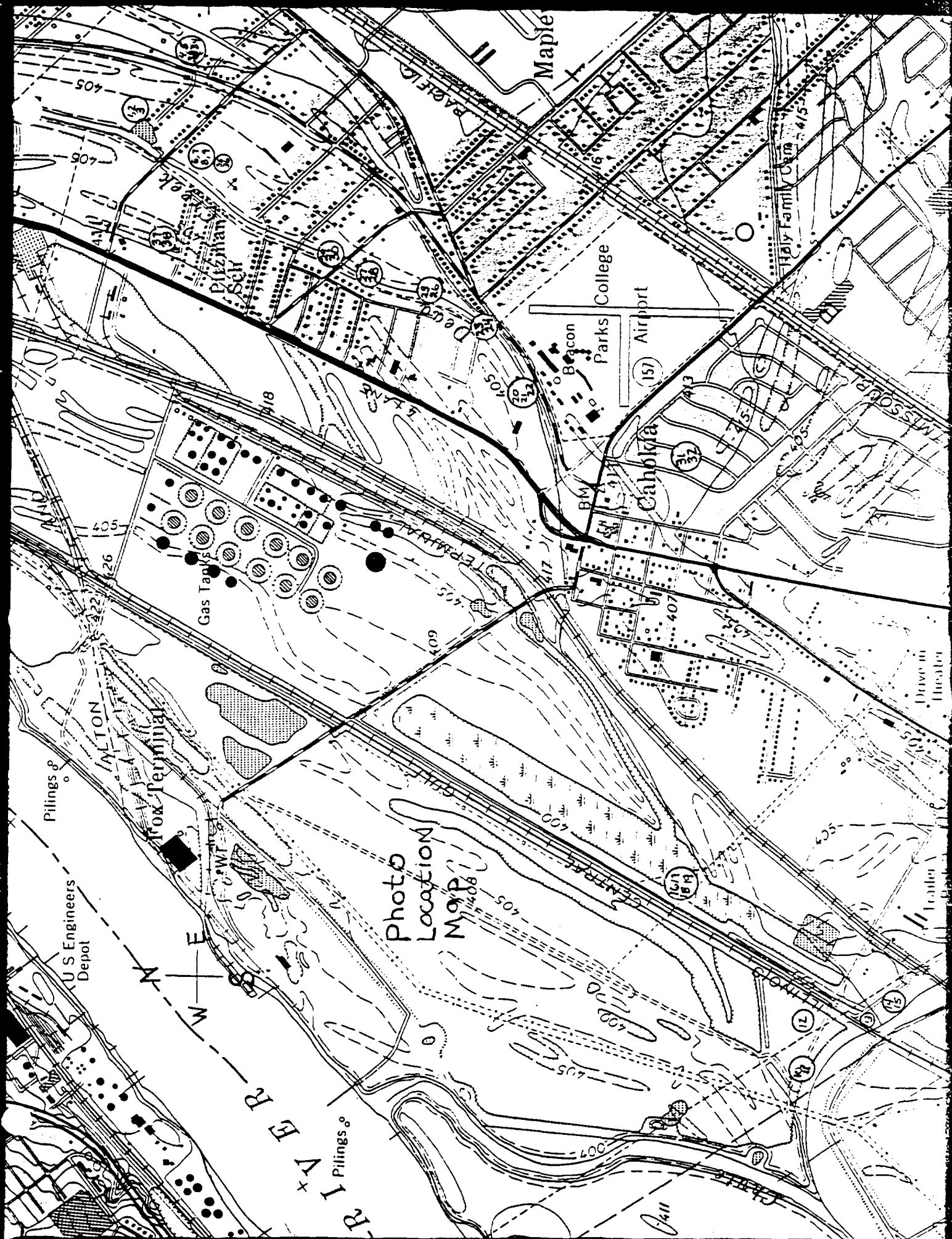
Location by _____ Rge. 10W

County St. Clair

NO ENVELOPE 26-2N-10W

Index: _____

APPENDIX F
IEPA SITE PHOTOGRAPHS



DATE: March 27, 1991

TIME: 10:00 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 1

LOCATION: Walter Allen

residence, 101 Walnut St.,

Cahokia, IL, (G205)

PICTURE TAKEN TOWARD: E

COMMENTS: The 17' well is
used for large garden and
greenhouse watering.

PHOTO # 2 toward the NE

DATE: March 27, 1991

TIME: 10:00 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 3

LOCATION: Walter Allen

residence, 101 Walnut St.,

Cahokia, IL, (G205).

PICTURE TAKEN TOWARD: NW

COMMENTS: The Allen well is
ext to Site M and at the
1 of Dead Creek Segment



DATE: March 27, 1991

TIME: 10:40 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 4

LOCATION: John Ballett
residence, 3300 Falling
Springs Rd. Cahokia, IL,
(G203)

PICTURE TAKEN TOWARD: N

COMMENTS: The 20' (approx.)
well is used for garden
watering.



DATE: March 27, 1991

TIME: 10:40 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 5

LOCATION: John Ballett
residence, 3300 Falling
Springs Rd. Cahokia, IL,
(G203)

PICTURE TAKEN TOWARD: NW

COMMENTS: Next door
neighbor also has well
with past drinking use
(N. Johnson).



A black and white photograph showing a person in a white protective suit and mask kneeling in a field, working with equipment. A sign in the foreground reads: SITE NO. 10, DATE: 11/11/68, SAMPLE NO. 1, and 11/11/68. A building is in the background.

PHOTOGRAPH TAKEN BY:

PHOTOGRAPH NUMBER: 6

PICTURE TAKEN TOWARD: E

COMMENTS: The 26' well is
E of the Wright residence
next to Dead Creek Segment
C.

PHOTOGRAPH TAKEN BY:

PHOTOGRAPH NUMBER: 7

PICTURE TAKEN TOWARD: NW

COMMENTS: He uses his well
ocassionally for drinking.

DATE: March 27, 1991

TIME: 11:55 AM

PHOTOGRAPH TAKEN BY: _____

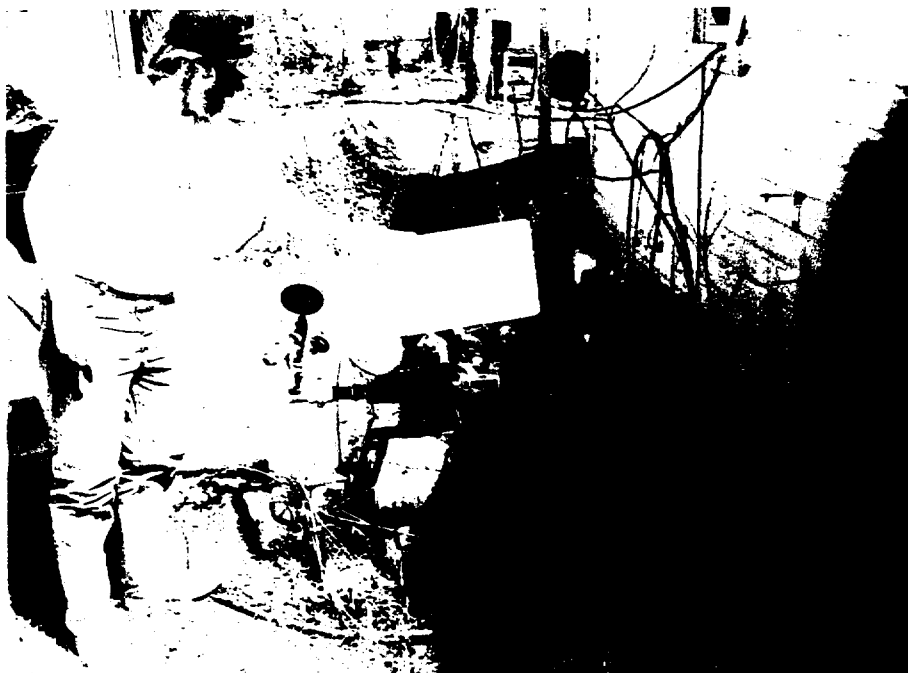
Timothy J. Murphy

PHOTOGRAPH NUMBER: 8

LOCATION: William Schmidt
residence, 104 Judith Ln.,
Cahokia, IL, (G202).

PICTURE TAKEN TOWARD: N

COMMENTS: The 49' well is
E of the Settle well (G201)
about 350' E of Dead
Creek Segment C.



DATE: March 27, 1991

TIME: 11:55 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 9

LOCATION: William Schmidt
residence, 104 Judith Ln.,
Cahokia, IL, (G202).

PICTURE TAKEN TOWARD: NW

COMMENTS: He used his well
in the past for drinking,. .
he now waters grapes/grass
and garden with the well.



DATE: March 27, 1991

TIME: 3:45 PM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 10

LOCATION: Old Prairie

Dupont Creek in

Cahokia, IL, (X114).

PICTURE TAKEN TOWARD: SE

COMMENTS: The location is
approximately 2000' down-
stream of the Dead Creek
inlet.



DATE: March 27, 1991

TIME: 3:45 PM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 11

LOCATION: Old Prairie

Dupont Creek in

Cahokia, IL, (X114).

PICTURE TAKEN TOWARD: E-NE

COMMENTS: Old Prairie
Dupont Creek flows into
the Cahokia Chute of the
Mississippi River.



DATE: March 27, 1991

TIME: 4:15 PM

PHOTOGRAPH TAKEN BY: _____

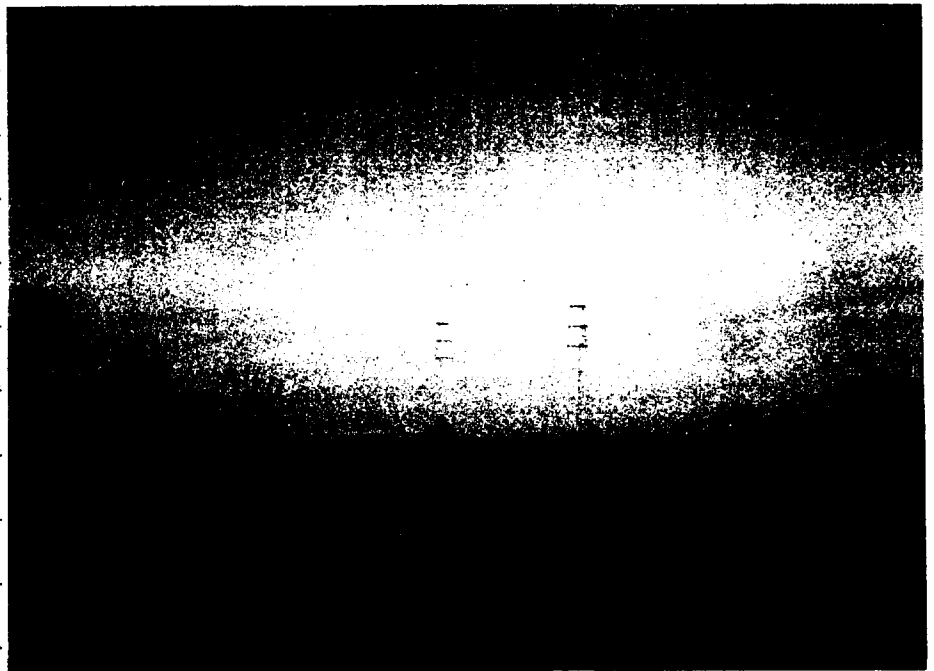
Timothy J. Murphy

PHOTOGRAPH NUMBER: 12

LOCATION: N of Old Prairie
Dupont Creek and W of Dead
Creek in Cahokia, IL.

PICTURE TAKEN TOWARD: N

COMMENTS: The air-borne
particulates were heavy
on this day.



DATE: March 27, 1991

TIME: 4:25 PM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 13

LOCATION: Old Prairie Du-
pont Creek and Dead Creek
in Cahokia, IL, (X113)

PICTURE TAKEN TOWARD: E

COMMENTS: Dead Creek flows
under the 500 year levee
prior to entering the Old
Prairie Dupont Creek.



DATE: March 27, 1991

TIME: 4:40 PM

PHOTOGRAPH TAKEN BY:

Judy Triller

PHOTOGRAPH NUMBER: 14

LOCATION: Old Prairie

Dupont Creek in

Cahokia, IL, (X112).

PICTURE TAKEN TOWARD: E

COMMENTS: The location is

approximately 200' up-

stream of the Dead Creek

inlet.



DATE: March 27, 1991

TIME: 4:40 PM

PHOTOGRAPH TAKEN BY:

Judy Triller

PHOTOGRAPH NUMBER: 15

LOCATION: Old Prairie

Dupont Creek in

Cahokia, IL, (X112).

PICTURE TAKEN TOWARD: E

COMMENTS: Old Prairie

Dupont Creek flows into

the Cahokia Chute of the

Mississippi River.



DATE: March 27, 1991

TIME: 5:00 PM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 16

LOCATION: Dead Creek wet-
land area in Cahokia, IL.

PICTURE TAKEN TOWARD: E-NE

COMMENTS: The large wetland
is located W of the
village of Cahokia. X111
was collected here.



DATE: March 27, 1991

TIME: 5:15 PM

PHOTOGRAPH TAKEN BY: _____

Greg Spencer

PHOTOGRAPH NUMBER: 17

LOCATION: Dead Creek wet-
land area in Cahokia, IL,
near X111.

PICTURE TAKEN TOWARD: SE

COMMENTS: Many small fish
were in the wetland, this
bluegill had something
wrong with its back.



DATE: March 27, 1991

TIME: 5:30 PM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 18

LOCATION: Dead Creek wet-
land area in Cahokia, IL,
(X111).

PICTURE TAKEN TOWARD: E

COMMENTS: The location is
near the N corner of the
power line pole.



DATE: March 27, 1991

TIME: 5:30 PM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 19

LOCATION: Dead Creek wet-
land area in Cahokia, IL,
(X111).

PICTURE TAKEN TOWARD: E

COMMENTS: This location
appears to be the center
of Dead Creek running
through the wetland.



DATE: March 28, 1991

TIME: 9:05 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 20

LOCATION: Dead Creek at

Parks College in

Cahokia, IL, (X110).

PICTURE TAKEN TOWARD: E-NE

COMMENTS: The location is
at the N culvert, between
the Parks College parking
lot/practice field and the
classroom buildings.

PHOTO # 21 toward the SE

DATE: March 28, 1991

TIME: 9:05 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 22

LOCATION: Dead Creek at

Parks College in

Cahokia, IL, (X110).

PICTURE TAKEN TOWARD: NE

COMMENTS: Dead Creek not
very wide at this
location.



DATE: March 28, 1991

TIME: 9:30 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 23

LOCATION: Dead Creek N of

Parks College in

Cahokia, IL, (X109).

PICTURE TAKEN TOWARD: N-NW

COMMENTS: This location is

very close to several

trailer homes.



DATE: March 28, 1991

TIME: 9:30 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 24

LOCATION: Dead Creek N of

Parks College in

Cahokia, IL, (X109).

PICTURE TAKEN TOWARD: E-NE

COMMENTS: Certain areas of

Dead Creek contained

coarser deposits, as is

the case at this location.



DATE: March 28, 1991

TIME: 9:50 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 25

LOCATION: Dead Creek in
Cahokia, IL, (X108).

PICTURE TAKEN TOWARD: W

COMMENTS: The location is
near the VFW Hall at the
S end of the culvert.



DATE: March 28, 1991

TIME: 9:50 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 26

LOCATION: Dead Creek in
Cahokia, IL, (X108).

PICTURE TAKEN TOWARD: E

COMMENTS: The culvert
supports Edger St. as it
passes over Dead Creek.



DATE: March 28, 1991

TIME: 10:15 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 27

LOCATION: Dead Creek in

Cahokia, IL, (X107).

PICTURE TAKEN TOWARD: E

COMMENTS: The location is

directly behind the house

at 3809 White Street.



DATE: March 28, 1991

TIME: 10:15 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 28

LOCATION: Dead Creek in

Cahokia, IL, (X107).

PICTURE TAKEN TOWARD: SE

COMMENTS: The sampler was

able to locate the same

hole in order to get

enough sample.



DATE: March 28, 1991

TIME: 10:50 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 29

LOCATION: Dead Creek in
Cahokia, IL, (X106).

PICTURE TAKEN TOWARD: E

COMMENTS: The location is
behind the repair garage
on Jerome St.



DATE: March 28, 1991

TIME: 10:50 AM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 30

LOCATION: Dead Creek in
Cahokia, IL, (X106).

PICTURE TAKEN TOWARD: E

COMMENTS: Sample collected
same as X107.



DATE: March 28, 1991

TIME: 12:00 PM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 31

LOCATION: H.E. Kirby

property, 144 St. James St

in Cahokia, IL, (X104).

PICTURE TAKEN TOWARD: NW

COMMENTS: The location is

on the SE side of the

property, purging G204

in the background.



DATE: March 28, 1991

TIME: 12:10 PM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 32

LOCATION: H.E. Kirby

property, 144 St. James St

in Cahokia, IL, (X104).

PICTURE TAKEN TOWARD: NW

COMMENTS: The 30' well is

used occasionally for

drinking, gardening and

grass watering.



DATE: March 28, 1991

TIME: 12:45 PM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 33

LOCATION: J. Ballett

property at 3300 Falling

Springs Rd. in Cahokia,

IL, (X103).

PICTURE TAKEN TOWARD: NW

COMMENTS: The location is

at the NW corner of the

front yard.



DATE: March 28, 1991

TIME: 12:45 PM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 34

LOCATION: J. Ballett

property at 3300 Falling

Springs Rd. in Cahokia,

IL, (X103).

PICTURE TAKEN TOWARD: NW

COMMENTS: In the background

is Site H, Cerro Copper

Products and the Arch.



DATE: March 28, 1991

TIME: 1:00 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 35

LOCATION: W. Schmidt

property at 104 Judith Ln.
in Cahokia, IL, (X102).

PICTURE TAKEN TOWARD: S

COMMENTS: The location is
in the back yard, S side
of the property. Time on
Photo board should be 1:00



DATE: March 28, 1991

TIME: 1:00 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 36

LOCATION: W. Schmidt

property at 104 Judith Ln.
in Cahokia, IL, (X102).

PICTURE TAKEN TOWARD: SW

COMMENTS: The location is
the same property where
G202 was collected.



DATE: March 28, 1991

TIME: 1:15 PM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 37

LOCATION: V. Shepard

property at 25 David St.

in Cahokia, IL, (X101).

PICTURE TAKEN TOWARD: NW

COMMENTS: The location is

in the back yard, N side

of the property. Time on

Photo board should be 1:15



DATE: March 28, 1991

TIME: 1:15 PM

PHOTOGRAPH TAKEN BY: _____

Timothy J. Murphy

PHOTOGRAPH NUMBER: 38

LOCATION: V. Shepard

property at 25 David St.

in Cahokia, IL, (X101).

PICTURE TAKEN TOWARD: NE

COMMENTS: The location is

in the back yard, N side.

There is a golf ball

driving range in the back.



APPENDIX G
FLOOD INSURANCE RATE MAPS

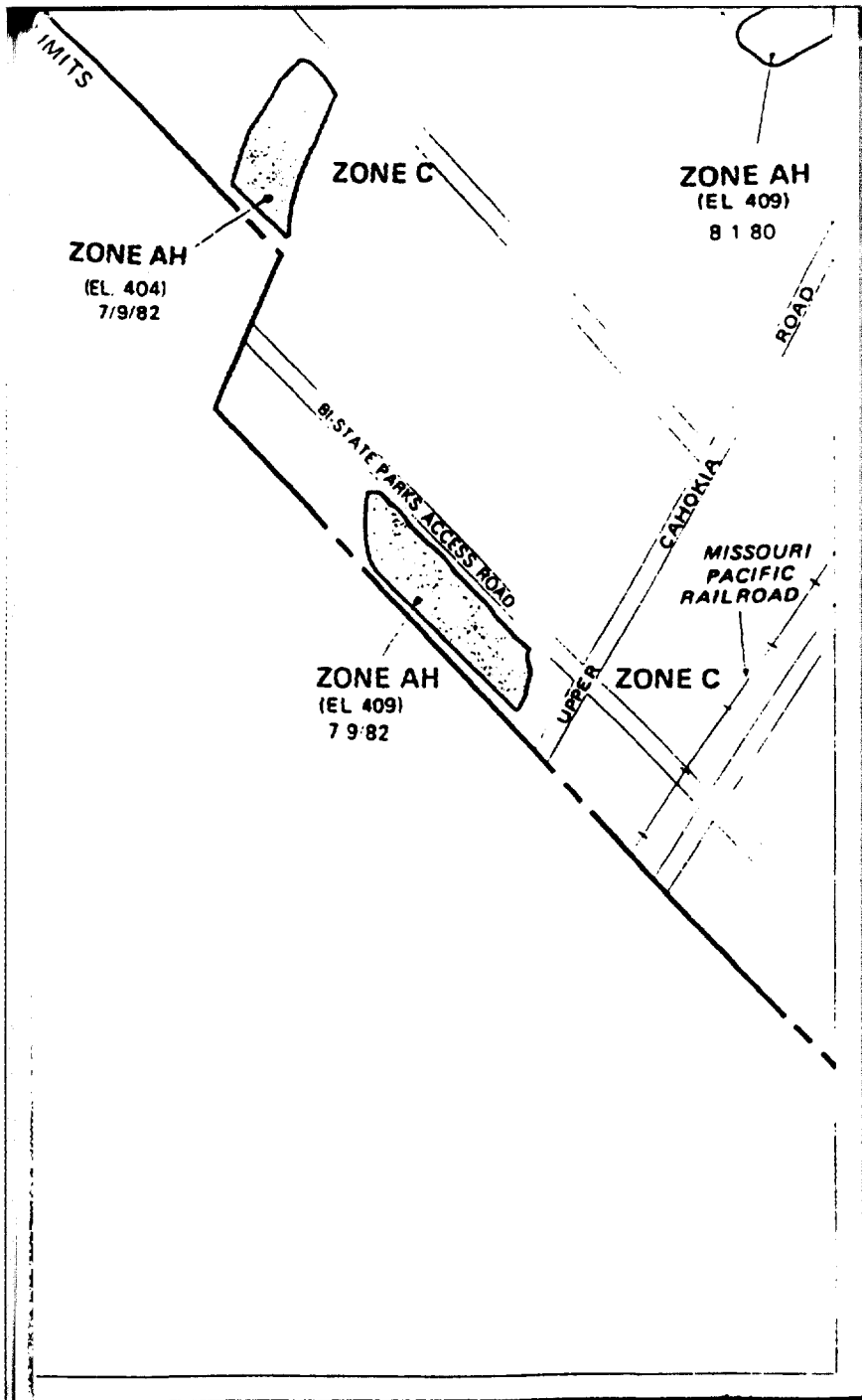
SDMS US EPA REGION V

FORMAT- OVERSIZED - 5

IMAGERY INSERT FORM

The item(s) listed below are not available in SDMS. In order to view original document or document pages, contact the Superfund Records Center.

SITE NAME	SAUGET AREA 1		
DOC ID #	150584		
DESCRIPTION OF ITEM(S)	OVERSIZE SITE MAPS		
REASON WHY UNSCANNABLE	<u> X </u> OVERSIZED	OR	<u> </u> FORMAT
DATE OF ITEM(S)			
NO. OF ITEMS	2		
PHASE	SAS		
PRP			
PHASE (AR DOCUMENTS ONLY)	<u> </u> Remedial <u> </u> Removal <u> </u> Deletion Docket <u> </u> AR <u> </u> Original <u> </u> Update # <u> </u> Volume <u> </u> of <u> </u>		
O.U.			
LOCATION	Box # <u> </u> Folder # <u> </u> Subsection <u> </u>		
COMMENT(S)			
OVERSIZED SITE MAPS			



FIRM

FLOOD INSURANCE RATE MAP

VILLAGE OF
SAUGET,
ILLINOIS
ST CLAIR COUNTY

PANEL 1 OF 3
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
170635 0001 B

MAP REVISED:
JULY 9, 1982



Federal Emergency Management Agency

the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)

C

Areas of minimal flooding. (No shading)

D

Areas of undetermined, but possible, flood hazards.

FLOOD INSURANCE RATE MAP

VILLAGE OF
CAHOKIA, ILLINOIS
ST. CLAIR COUNTY

COMMUNITY-PANEL NUMBER
170620 0005 C

(ONLY PANEL PRINTED)

MAP REVISED:
JUNE 27, 1980



U.S. DEPARTMENT OF HOUSING
AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

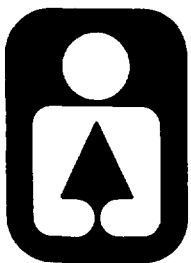
APPENDIX H
SENSITIVE AREAS FORM

Brent Manning
Director

John W. Comerio
Deputy Director

Bruce F. Clay
Assistant Director

Illinois



Department of Conservation
life and land together

LINCOLN TOWER PLAZA • 524 SOUTH SECOND STREET • SPRINGFIELD 62701-1787
CHICAGO OFFICE • ROOM 4-300 • 100 WEST RANDOLPH 60601

June 24, 1991

Mr. Tim Murphy
IL EPA/LPC
P.O. Box 19276
Springfield, IL 62794-9276

Re: ILD #980606982, 000672329, 000605790, 000722074, 000665836
Sauget Sites Area #2

Dear Mr. Murphy:

Area #1 and Area #2 have the
same surface water route

In response to your June 10, 1991 request the Department has reviewed the proposed CERCLIS Sites (Sauget Area #2) in St. Clair County.

There are no sensitive areas on site, but there are several sensitive areas in the 0- $\frac{1}{4}$ and $\frac{1}{4}$ to $\frac{1}{2}$ mile radius of the site and along the water path, both on the Illinois and Missouri Sides.

The Resource Inventory for the Mississippi River for the 178-162 River Miles (see attached information) shows fish spawning areas, commercial fishing areas, sport fishing areas, important wildlife habitat and bald eagle use at selected areas in this reach.

Also, during September, 1989 fish contaminant sampling we observed numerous (~100) 9-12 inch sauger using this area of the river between RM. 178-176. Large numbers of channel catfish and white bass were also observed. It is likely these species also use much of the 178-162 mile reach.

Thank you for the opportunity to comment. If you need further information please advise.

Sincerely,

Richard W. Lutz, Supervisor
Impact Analysis Section
Division of Planning

RWL:ts

Att: sensitive areas form
Resource Inventory maps

RECEIVED

JUN 26 1991

IEPA/DLPC

DEPARTMENT OF CONSERVATION IDENTIFICATION OF
ENVIRONMENTAL SENSITIVE AREAS

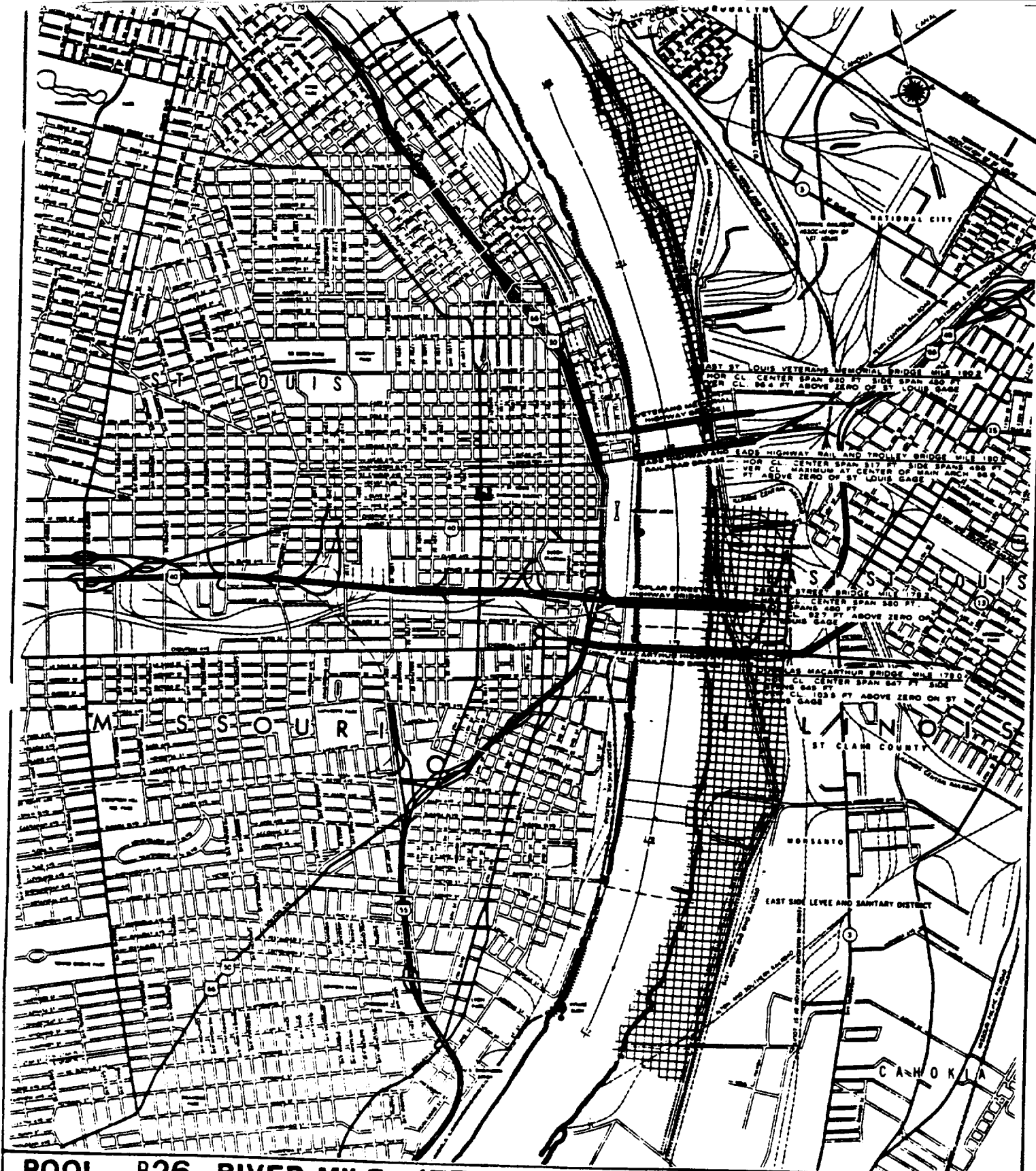
000 665836
980606982
000 672329
000 605790
000 722074
1LD#

— = None in Area

TARGET DISTANCE CATEGORIES

SENSITIVE ENVIRONMENTS	On-site	0-1/4 mile	1/4-1/2 mile	stream mileage
I. Critical habitat for Federally designated or proposed endangered or threatened species	—	—	—	
II. Habitat known to be used by Federally designated or proposed endangered or threatened species	—	—	—	*
III. State wildlife refuge	—			
IV. Spawning areas critical for the maintenance of fish/shellfish species within a river system	—	*	*	*
V. Terrestrial areas utilized by large or dense aggregations of vertebrate animals for breeding	—	—	—	*
VI. Habitat known to be used by State designated or threatened species	—	—	—	*
VII. Habitat known to be used by a species under review as to its Federal endangered or threatened status	—	—	—	—
VIII. State lands designated for wildlife or game management	—	—	—	*
IX. State designated natural area	—	—	—	—
X. Particular areas, relatively small in size, important to the maintenance of unique biotic communities	—	—	—	—

If any of the sensitive areas identified above exist within the designated target distance limits, please put an asterisk (*) in the appropriate column.



POOL B26 RIVER MILE 177 - 182



USFWS Closed area (restricted hunting)
Important wildlife habitat
Rookery
Bald eagle

WILDLIFE

River Mile 177-182

Recreation

- 179.6(L) - The East St. Louis Access contains bank fishing and a scenic view of Gateway Arch.
- 179.7(R) - St. Louis City Harbor (boat ramp and marina).
- 179.8(R) - Jefferson National Expansion Memorial.

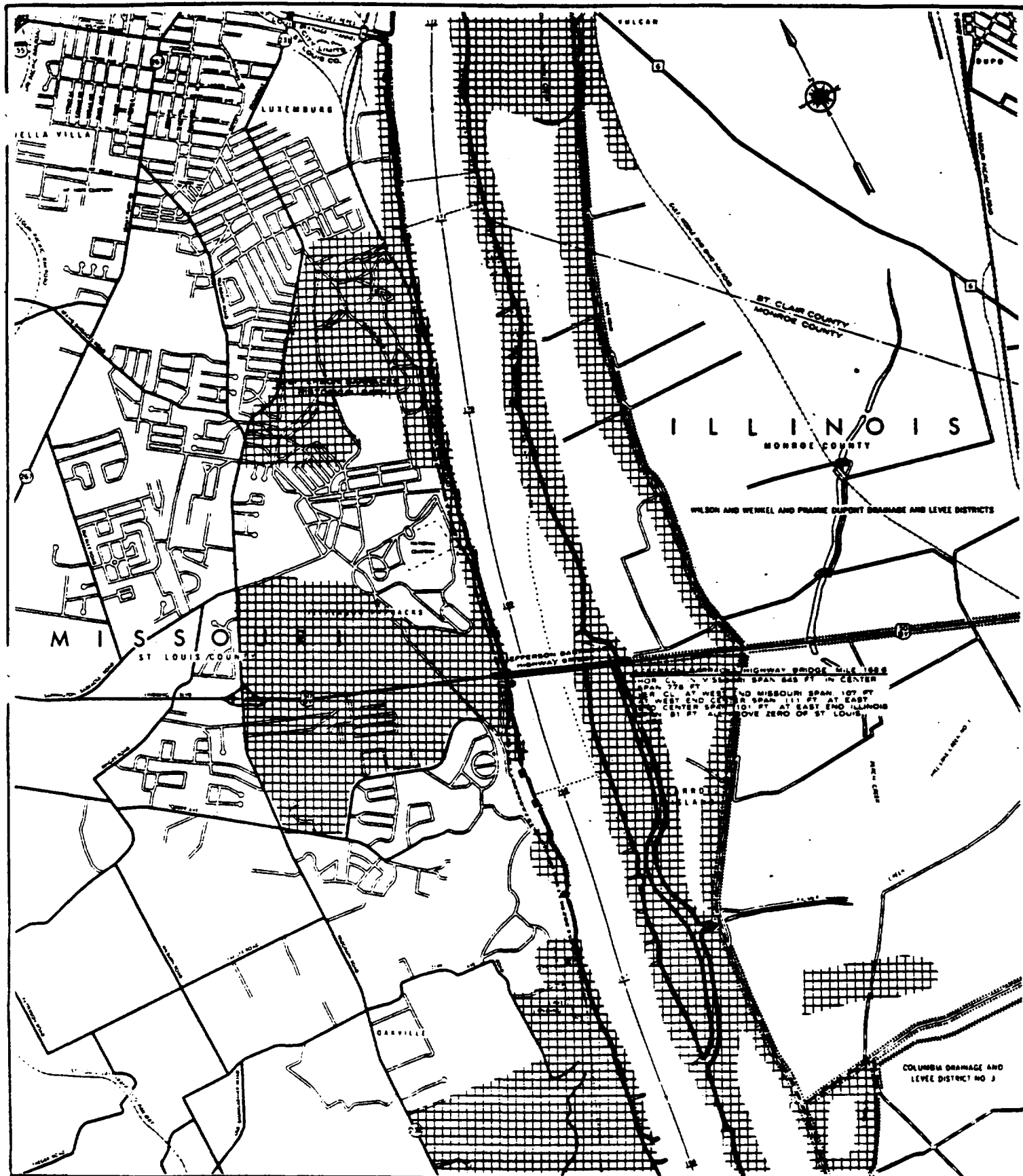
River Mile 172-177

Wildlife





173.5-176.0(L) - Important area for mourning dove.

Recreation

174.4(R) - Upper and Lower Bellerive Park.



POOL B26 RIVER MILE 166 - 172

-  USFWS Closed area (restricted hunting)
-  Important wildlife habitat
-  Rookery
-  Bald eagle

WILDLIFE

River Mile 166-172

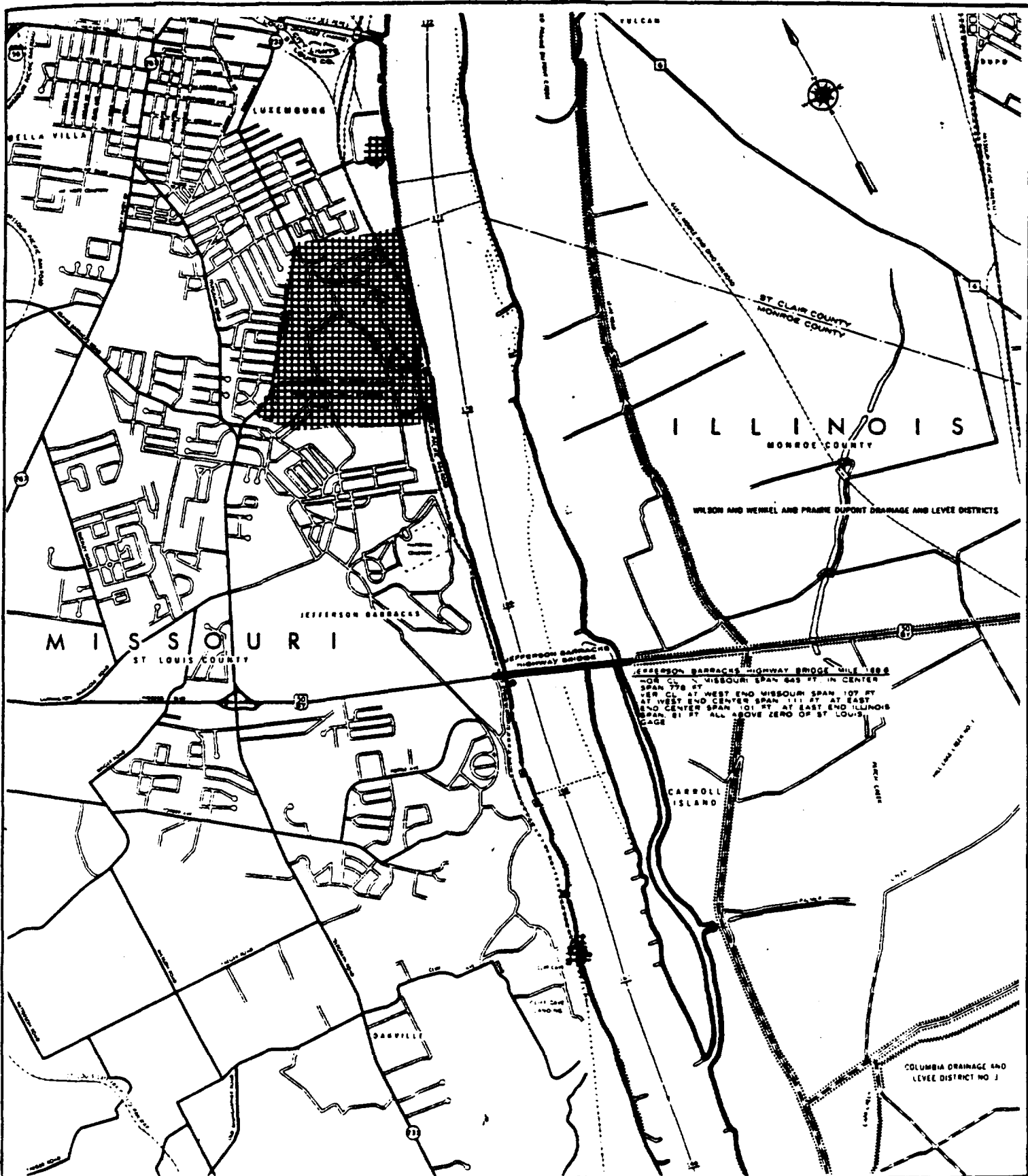
Recreation

- 167.0(R) - Cliff Cave contains a picnic area, bluffs, and caves. The Cliff Cave Natural Area is also located here.
- 170.0-171.0(R) - Jefferson Barracks Historical Park (camping, picnic area, historic site).
- 171.5(R) - Black Forest Park (picnic area).

River Mile 160-166

Recreation

162.8 - Bee Tree (hiking trail and picnic area).

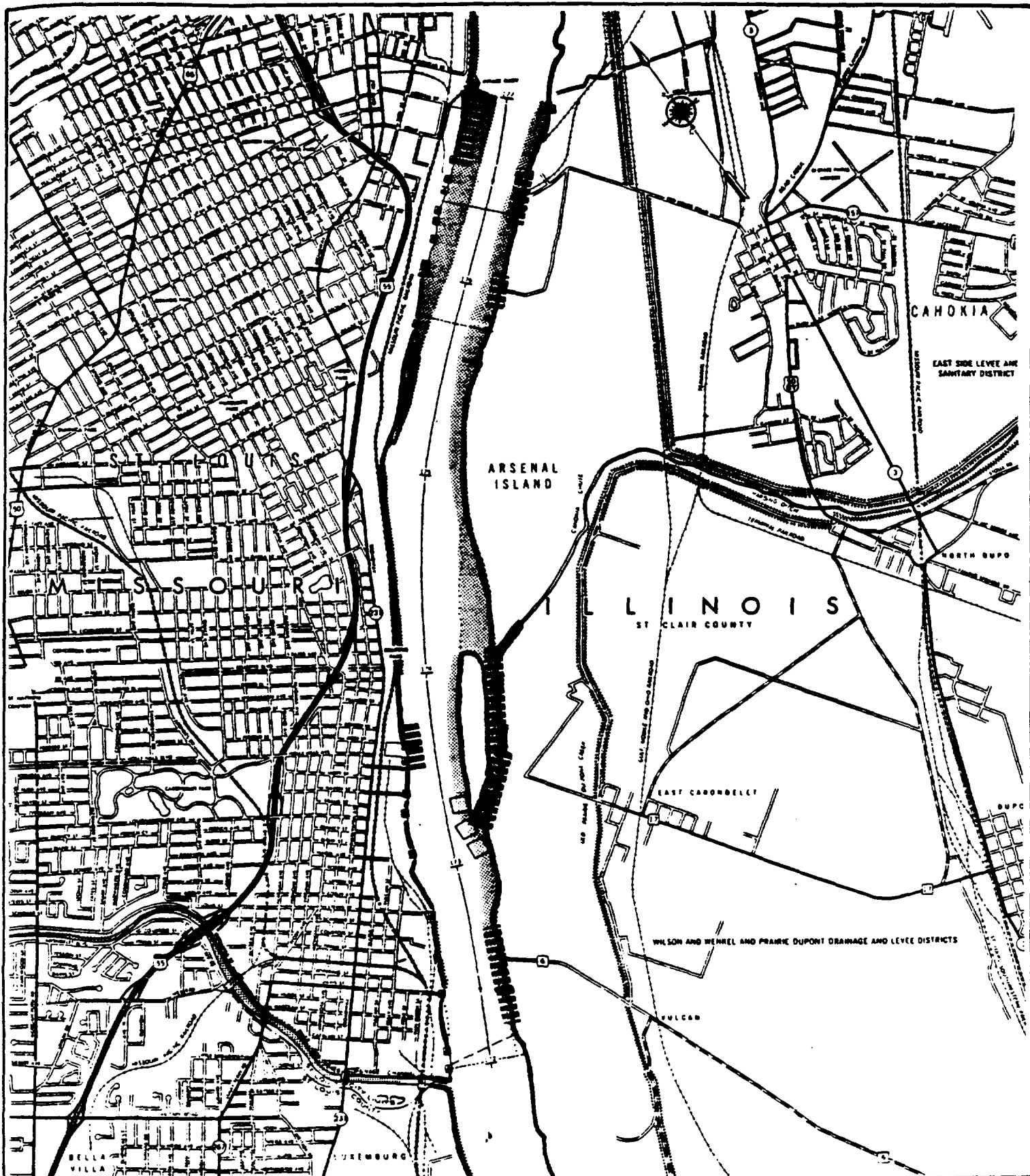


Popular sand beach
 Water oriented recreation facility
 Public park or recreation area
 Popular water sport area
 Access to side channel

Significant vista

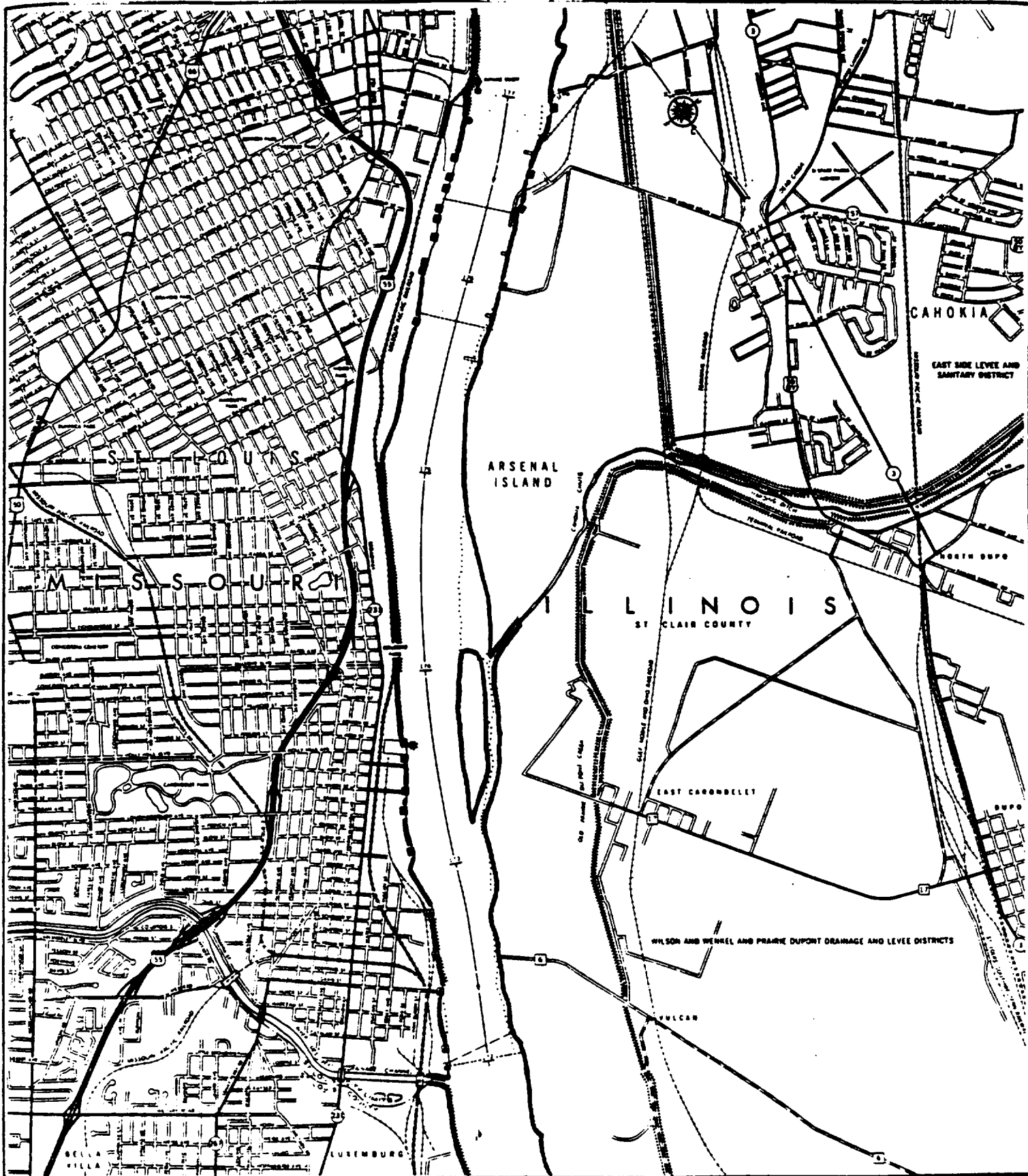


RECREATION



Spawning habitat
 Sport fishing area
 Important commercial fishing area
 Mussel bed

FISHERIES



Popular sand beach
 Water oriented recreation facility
 Public park or recreation area
 Popular water sport area
 Access to side channel

Significant vista



RECREATION

APPENDIX J
PRIVATE WELL SAMPLE FORMS

07659

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING
COLLECTOR - PREPARE ONE FORM FOR EACH SAMPLE.

1. NAME OF SOURCE OR FACILITY NAME: LABORVILLE HUTS. CO.

16. ADDRESS OF SOURCE: 3304 FALLING RD. RD.

CANONIA 62208 163
CITY/TOWN/STATE ZIP CODE COUNTY CODE (SEE BACK)

2. DATE COLLECTED: 8-5-85 1. TIME COLLECTED: 10:30
MO DAY YR AM PM

4. IS SUPPLY CHLORINATED? YES NO
SAMPLE POINT DESCRIPTION (OPTIONAL)

5. NAME OF COLLECTOR: W. Magnus

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW) IF WELL ENTER DEPTH FEET 34
DUG 10
DRILLED 9
DRIVEN 4
BORED 2
(IF OTHER THAN WELL CHECK ONE BELOW)
b. CITY WATER Y
c. CISTERN C
d. SPRING IS
e. LAKE L
f. OTHER IO

7. SAMPLE LOCATION

a. RAW AT PUMP P
b. FILTERED F
c. AT TAP N
d. OTHER O

8. MAIL REPORT TO:

NAME: E. Side Health District
STREET, RD, ETC: 540 Benton Rd.
CITY: East St. Louis, Mo. ZIP CODE: 62208
TELEPHONE NR: 618-874-4492

REMARKS:

FOR LABORATORY USE ONLY

16. RESULTS:

17. DATE RECEIVED AT LABORATORY:

MO DAY YR AM PM

8-6-85 8 1685 TIME: 9:00 57

18. DECHLORINATED BOTTLE? 1 YES NO

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER
						COLIFORM
						FILTER COLIFORM

*CODE UNIT AS FOLLOWS:

% = PERCENT H = /100ML O = COLOR
A = GRAMS I = MICROGRAM/L T = TU
B = /GM J = /100GM U = MICROGM/ML
C = DECC L = MC/L X = PPM
F = DECF M = /ML Y = PPB

19. DATE REPORTED FROM LABORATORY:

MO DAY YR ANALYST
8-8-85 8 1685 8 1685 8 1685

INTERPRETATION OF RESULTS:

COLIFORM

☐ SATISFACTORY
☒ UNSATISFACTORY

NITRATE

☒ SATISFACTORY
☐ UNSATISFACTORY

TURBIDITY

☐ SATISFACTORY
☐ UNSATISFACTORY

LHD STAMP

REMARKS:

See attached 8-9-85 L.H.

Shed T. Crawford

REPORT OF ANALYSIS

This sample has been analyzed for pollutional bacteria called "coliforms" which are normally present in the intestinal tract of humans, birds, and land animals. They are always found in sewage, and are generally present in surface water and shallow ground water. Coliforms in a water sample usually indicate that pollution is entering the water supply and that organisms which cause intestinal infections may be present or may gain entrance to the supply. Proper location, construction, and maintenance of a supply will prevent pollution from entering, thus assuring a bacteriologically safe water.

OPINIONS checked below indicate the quality of the water for drinking at the time of sample collection:

☐ SAFE for drinking, but the continued safety depends upon the source being properly located, constructed, and maintained as explained in our circular. Do not rely on a "safe" analysis if there is any sanitary defect in location or construction of source.

☒ POLLUTIONAL bacteria present in sample. The water is UNSAFE to drink. Read our circular carefully for proper location and construction, and for disinfection. Pollutional organisms are destroyed by bringing the water to a rolling boil for three minutes.

☒ NITRATE content - satisfactory - for use by children under one year.

☐ NITRATE content is too high for use by children under one year as it may cause "blue baby" illness. Nitrate in water cannot be decreased by boiling. A water with 10 or less milligrams of nitrate (as N) per liter (MG/L) is recommended.

Local Health Department Stamp

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING
ECTOR - PREPARE ONE FORM FOR EACH SAMPLE.

1a. NAME OF SOURCE
OR FACILITY NAME:

Robert G. Balle Jr.
NAME OF SOURCE

1b. ADDRESS OF SOURCE:

3300 Franklin S.D.R.E.
STREET/RURAL ROUTE/ROAD

CITY/TOWN/STATE ZIP CODE COUNTY CODE

2 DATE COLLECTED:

22/5/21

3 TIME COLLECTED:

4. IS SUPPLY CHLORINATED?

1. ☐ YES ☒ NO

SAMPLE POINT DESCRIPTION (OPTIONAL)

5. NAME OF COLLECTOR:

R: W. Mayner

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

g. WELL (IF WELL - CHECK ONE BELOW)

DUG	D
DRILLED	R
DRIVEN	V
BORED	B

IF WELL
ENTER DEPTH
FEET

1351

(IF OTHER THAN WELL
CHECK ONE BELOW)

b. CITY WATER.	<input type="checkbox"/>	Y
c. CISTERN.	<input type="checkbox"/>	C
d. SPRING.	<input type="checkbox"/>	S
e. LAKE.	<input type="checkbox"/>	L
f. OTHER.	<input type="checkbox"/>	O

7. SAMPLE LOCATION

a. RAW AT PUMP.	P
b. FILTERED	F
c. AT TAP.	N
d. OTHER.	O

8. MAIL REPORT TO:

NAME: E. Mike Kelle West
STREET: 5540 Bunker Rd.
R, ETC:
CITY/STATE: East St. Louis, Ill ZIP CODE: 62204
TELEPHONE NBR: 68 - 874 - 4692

REMARKS:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID	UNIT
TOTAL COLI (MF)	3010	H
TOTAL COLI (MPN)	3011	H
FECAL COLI	3030	H
FECAL STREP	3090	H
NITRATE (QUAL)	1220	L
NITRATE (QUAL)		L

DECHLORINATED SAMPLE
NO CHEMICAL ANALYSIS

*CODE UNIT AS FOLLOWS.

% = PERCENT H = /100ML O = COLOR
 A = GRAMS I = MICROGRAM/L. T = TU
 B = /GM. J = /100GM. U = MICROGM./ML
 C = DEGC L = MG/L X = PPM
 F = DEGF M = /ML Y = PPB

17. DATE RECEIVED AT LABORATORY:

MO DAY YR AM PM
JUL 30 1985
TIME: 900

18. DECHLORINATED BOTTLE? 1 ☒ 0 ☐

WORK AREA:

[illegible]

19. DATE REPORTED
FROM LABORATORY:

MO DAY YR
19-11-85 P

INTERPRETATION OF RESULTS:

COLIFORM
☒ SATISFACTORY
☐ UNSATISFACTORY

NITRATE
SATISFACTORY
UNSATISFACTORY

TURBIDITY
SATISFACTORY
UNSATISFACTORY

REMARKS:

8-2-85 L.W.

Wm. L. Crawford

LHD STAMP

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1-8 IN BOX. USE BLACK PENCIL OR BLACK TYPING
LECTOR - PREPARE ONE FORM FOR EACH SAMPLE.1a. NAME OF SOURCE
OR FACILITY NAME:Lewis, Duval
NAME OF SOURCE

1b. ADDRESS OF SOURCE:

2402 Pennis LA
2982
CITY/TOWN/STATE
CAHOKIA
ZIP CODE 163
COUNTY CODE (SEE BACK)

2. DATE COLLECTED:

3/25/86
MO DAY YR

3. TIME COLLECTED:

1000
AM PM

4. IS SUPPLY CHLORINATED?

YES ☐NO ☒

SAMPLE POINT DESCRIPTION (OPTIONAL)

5. NAME OF COLLECTOR:

Holmes & Maynard

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)

DUG ☐
DRILLED ☒
DRIVEN ☐
BORED ☐

IF WELL

ENTER DEPTH
FEET

129

(IF OTHER THAN WELL
CHECK ONE BELOW)b. CITY WATER ☐
c. CISTERN ☐
d. SPRING ☐
e. LAKE ☐
f. OTHER ☐

7. SAMPLE LOCATION

a. RAW AT PUMP ☐
b. FILTERED ☐
c. AT TAP ☒
d. OTHER ☐

8. MAIL REPORT TO:

NAME:

E. S. H. Health Dist.

STREET,
RR, ETC:

5540 BANKERS RD.

CITY/
STATE

E. St. Louis

ZIP CODE:

62204

TELEPHONE NBR:

618 - 874 - 4692

REMARKS:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID	UNIT
TOTAL COLI (MF)	3010	H
TOTAL COLI (MPN)	3011	H
FECAL COLI	3030	H
FECAL STREP	3090	H
NITRATE (QUAL)	1220	L
NITRATE (QUAN)	1230	L
Fe	0.5	X

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM/ML
C = DECC	L = MG/L	X = PPM
F = DEGF	M = /ML	Y = PPS

17. DATE RECEIVED AT LABORATORY:

MAR 26 1986
MO DAY YR
TIME: 900 AM PM

18. DECHLORINATED BOTTLE?

YES ☐NO ☒

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER
					COLIFORM
					FILTER COLIFORM

19. DATE REPORTED
FROM LABORATORY:3-28-86
MO DAY YR
ANALYST PWS

16. INTERPRETATION OF RESULTS:

COLIFORM
☒ SATISFACTORY
☐ UNSATISFACTORYNITRATE
☐ SATISFACTORY
☐ UNSATISFACTORYTURBIDITY
☐ SATISFACTORY
☐ UNSATISFACTORY

REMARKS:

Iron, reasonably satisfactory
No 3-31-86

LHD STAMP

Fred L. Crawford

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING
COLLECTOR - PREPARE ONE FORM FOR EACH SAMPLE.

1a. NAME OF SOURCE
OR FACILITY NAME:

LARRY W. SMITH
NAME OF SOURCE

1b. ADDRESS OF SOURCE:

1303 ST. STEVENS
STREET/RURAL ROUTE/ROAD

CAHOZIA IL
CITY/TOWN/STATE

62206
ZIP CODE

COUNTY CODE
(SEE BACK)

2. DATE COLLECTED:

06/13/88
MO DAY YR

3. TIME COLLECTED:

1030
AM PM

4. IS SUPPLY CHLORINATED?

YES ☐ NO ☒

SAMPLE POINT DESCRIPTION (OPTIONAL)

5. NAME OF COLLECTOR:

Lester Bonnette

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)

IF WELL

ENTER DEPTH

FEET

49

(IF OTHER THAN WELL - CHECK ONE BELOW)

b. CITY WATER

c. CISTERN

d. SPRING

e. LAKE

f. OTHER

7. SAMPLE LOCATION

a. RAW AT PUMP

b. FILTERED

c. AT TAP

d. OTHER

8. MAIL REPORT TO:

NAME:

LARRY W. SMITH

STREET,
RR, ETC.:

1303 ST. STEVENS

CITY:
STATE:

CAHOZIA IL

ZIP CODE

62206

TELEPHONE NBR:

618 - 337 - 5845

REMARKS:

OK FOR SAFE
Drinking Water

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID	UNIT
TOTAL COLI (MF)	3010	H
TOTAL COLI (MPN)	3011	H
FECAL COLI	3030	H
FECAL STREP	3090	H
NITRATE (QUAL)	1220	L
NITRATE (QUAN)	1230	L

*CODE UNIT AS FOLLOWS:

% = PERCENT
A = GRAMS
B = /GM.
C = DEGC
F = DEGF

H = /100ML
I = MICROGRAM./L
J = /100GM.
L = MG./L
M = /ML

O = COLOR
T = TU
U = MICROGM./ML
X = PPM
Y = PPS

17. DATE RECEIVED AT LABORATORY:

JUN 14 1988

TIME: 915

18. DECHLORINATED BOTTLE?

YES ☒ NO ☐

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER
					COLIFORM
					FILTER COLIFORM

19. DATE REPORTED
FROM LABORATORY:

6-18-88

ANALYST:

[Signature]

20. INTERPRETATION OF RESULTS:

COLIFORM

SATISFACTORY ☐
UNSATISFACTORY ☒

NITRATE

SATISFACTORY ☐
UNSATISFACTORY ☒

TURBIDITY

SATISFACTORY ☐
UNSATISFACTORY ☐

REMARKS:

DECHLORINATED SAMPLE
NO CHEMICAL ANALYSIS

UNSAFE TO DRINK! BACTERIA PRESENT IN SAMPLE.

LHD STAMP

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING
COLLECTOR - PREPARE ONE FORM FOR EACH SAMPLE.

02671

1. NAME OF SOURCE OR FACILITY NAME: H. E. Keady NAME OF SOURCE

1b. ADDRESS OF SOURCE: 144 ST JAMES STREET/RURAL ROUTE/POAD

CAHOKIA IL 62206 CITY/TOWN/STATE ZIP CODE COUNTY CODE (SEE BACK)

2. DATE COLLECTED: 080789 MO DAY YR

3. TIME COLLECTED: 0940 AM PM

4. IS SUPPLY CHLORINATED? 1 ☐ YES 0 ☒ NO

5. NAME OF COLLECTOR: LESTER BERNETTE EASTSIDE HEALTH SAMPLE POINT DESCRIPTION (OPTIONAL)

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)

DUG ☐ DRILLED ☒ DRIVEN ☐ BORED ☐

IF WELL ENTER DEPTH

30 FEET

(IF OTHER THAN WELL CHECK ONE BELOW)

b. CITY WATER ☐ c. CISTERN ☐ d. SPRING ☐ e. LAKE ☐ f. OTHER ☐

7. SAMPLE LOCATION

a. RAW AT PUMP ☒ b. FILTERED ☐ c. AT TAP ☐ d. OTHER ☐

8. MAIL REPORT TO:

NAME: H. E. Keady STREET, NR, ETC: 144 ST JAMES CITY/STATE: CAHOKIA IL ZIP CODE: 62206 TELEPHONE NBR: 618-332-6559

REMARKS: OK FOR SAFE WATER

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	IO	UNIT
TOTAL COLI (MPN)	3010	H
TOTAL COLI (MPN)	301	H
FECAL COLI	3030	H
FECAL STREP	3090	H
NITRATE (OVAL)	1220	L
NITRATE (OVAL)	1230	L

17. DATE RECEIVED AT LABORATORY:

AUG 19 1989 TIME: 830 AM PM

18. DECHLORINATED BOTTLE? 1 ☐ 0 ☒

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER
					COLIFORM
					FILTER COLIFORM

*CODE UNIT AS FOLLOWS:

% = PERCENT H = /100ML O = COLOR
A = GRAMS I = MICROGRAM/L T = TU
B = /GM J = /100GM U = MICROGM/ML
C = DECC L = MG/L X = PPM
F = DECF M = /ML Y = PPG

19. DATE REPORTED FROM LABORATORY:

8-11-89 ANALYST SW

20. INTERPRETATION OF RESULTS:

COLIFORM NITRATE TURBIDITY
☐ SATISFACTORY ☐ SATISFACTORY ☐ SATISFACTORY
☐ UNSATISFACTORY ☐ UNSATISFACTORY ☐ UNSATISFACTORY

REMARKS: 1 Bottle Sent 8.11.89

LHD STAMP

Eastside Health

RESAMPLE - TOO OLD (OVER 48 HRS OLD)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

AUG 11 1989

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING
COLLECTOR PREPARE ONE FORM FOR EACH SAMPLE.

1. NAME OF SOURCE OR FACILITY NAME: H. E. KEARBY
NAME OF SOURCE

1b. ADDRESS OF SOURCE: 144 ST JAMES
STREET/RURAL ROUTE/ROAD

CAHOKIA, IL 62206
CITY/TOWN/STATE ZIP CODE (SEE BACK)

2. DATE COLLECTED: 08/29/89 3. TIME COLLECTED: 0845
MO DAY YR AM PM

4. IS SUPPLY CHLORINATED? ☒ YES ☐ NO

5. NAME OF COLLECTOR: Lester Bonnette East Side Health
SAMPLE POINT DESCRIPTION (OPTIONAL)

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL CHECK ONE BELOW) IF WELL ENTER DEPTH FEET
DUG ☐ b. CITY WATER ☐
DRILLED ☒ c. CISTERN ☐
DRIVEN ☐ d. SPRING ☐
BORED ☐ e. LAKE ☐
f. OTHER ☐ 301

7. SAMPLE LOCATION
a. RAW AT PUMP ☒ b. FILTERED ☐
c. AT TAP ☐ d. OTHER ☐

03846
OFFICIAL USE

9. MICROFILM NO: 5.5
10. TRAN. CODE: 5.5
11. REGION OR LHD: 0011
12. LABORATORY ID: 0011
13. PROGRAM CODE: 0011
14. COLLECTOR ID: 0011
15. FACILITY ID: 0011

8. MAIL REPORT TO:

NAME: H. E. KEARBY
STREET: 144 ST JAMES
RR, ETC: CAHOKIA, IL
CITY/STATE: CAHOKIA, IL ZIP CODE: 62206
TELEPHONE NUM: 6181-3321-6559

REMARKS: CL For SAFE
WATER

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID	UNIT
TOTAL (COLI) (MP)	3010	M
TOTAL (COLI) (MP)	3011	M
FECAL COLI	3030	M
FECAL STREPT	1090	M
NITRATE (QUAL.)	1220	L
NITRATE (QUANT)	1230	L
<i>Pseudomonas aeruginosa</i>		

17. DATE RECEIVED AT LABORATORY:

8-29-89 TIME: 1:30 PM

18. DECHLORINATED BOTTLE? ☐ YES ☒ NO

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER
					COLIFORM
					FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY:

9-1-89 ANALYST JW

20. INTERPRETATION OF RESULTS:

COLIFORM
☐ SATISFACTORY ☐ UNSATISFACTORY

NITRATE
☐ SATISFACTORY ☐ UNSATISFACTORY

TURBIDITY
☐ SATISFACTORY ☐ UNSATISFACTORY

REMARKS:

LHD STAMP

EASTSIDE HEALTH DEPARTMENT
5540 BUNKUM ROAD
WASHINGTON PARK, IL 62204
Attn: Lester Bonnette

PRIVATE WATER SUPPLY SAMPLE FORM

02108

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING.
LECTOR - PREPARE ONE FORM FOR EACH SAMPLE.10. NAME OF SOURCE
OR FACILITY NAME:

John. Belle. H.

NAME OF SOURCE

11. ADDRESS OF SOURCE:

3202. E. 11th. S. D. R.

STREET/RURAL ROUTE/ROAD

Cape. H. H.

CITY/TOWN/VILLAGE

62241 163

ZIP CODE

COUNTY CODE
(SEE BACK)

12. DATE COLLECTED:

7/25/85

MO DAY YR

13. TIME COLLECTED:

1:10 PM

PM

14. IS SUPPLY CHLORINATED?

YES ☐NO ☒

SAMPLE POINT DESCRIPTION (OPTIONAL)

15. NAME OF COLLECTOR:

W. Mayhew

16. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)

DUG ☐
DRILLED ☐
DRIVEN ☐
BORED ☐

IF WELL

ENTER DEPTH
FEET

35

(IF OTHER THAN WELL
CHECK ONE BELOW)b. CITY WATER ☐
c. CISTERN ☐
d. SPRING ☐
e. LAKE ☐
f. OTHER ☐

17. SAMPLE LOCATION

a. RAW AT PUMP ☒
b. FILTERED ☐
c. AT TAP ☐
d. OTHER ☐

18. MAIL REPORT TO:

NAME: E. L. De. Health District

STREET: 540. Benton. Rd.

CITY: East. St. Louis. Ill.

STATE: MO. ZIP CODE: 62204

TELEPHONE: 618-1874-4192

REMARKS:

OK

FOR LABORATORY USE ONLY

19. RESULTS:

17. DATE RECEIVED AT LABORATORY:

JUL 30 1985

TIME: 9:00 PM

18. DECHLORINATED BOTTLE?

YES ☒NO ☐

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER

*CODE UNIT AS FOLLOWS.

A = PERCENT H = /100ML O = COLOR
B = GRAMS I = MICROGRAM/L T = TU
C = /GM J = /100GM U = MICROGM/ML
D = DECF L = MG/L X = PPM
E = DECF M = /ML Y = PPD19. DATE REPORTED
FROM LABORATORY:

8-1-85

ANALYST

19b. INTERPRETATION OF RESULTS:

COLIFORM

☒ SATISFACTORY
☐ UNSATISFACTORY

NITRATE

☐ SATISFACTORY
☐ UNSATISFACTORY

TURBIDITY

☐ SATISFACTORY
☐ UNSATISFACTORY

LHD STAMP

REMARKS:

8-2-85 L.W.

John T. Crawford

337100

02667

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING
COLLECTOR - PREPARE ONE FORM FOR EACH SAMPLE.1a. NAME OF SOURCE
OR FACILITY NAME:Mr. Johnson
NAME OF SOURCE

1b. ADDRESS OF SOURCE:

3302 FALLING SPRING RD.
STREET/RURAL ROUTE/ROADCranston
CITY/TOWN/STATE

ZIP CODE

COUNTY CODE
(SEE BACK)

2. DATE COLLECTED:

8/5/85
MO DAY YR

3. TIME COLLECTED:

1:23 PM
AM PM

4. IS SUPPLY CHLORINATED?

YES
☐NO
☒

SAMPLE POINT DESCRIPTION (OPTIONAL)

5. NAME OF COLLECTOR:

W. Morgan

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)

DUG	<input type="checkbox"/>
DRILLED	<input type="checkbox"/>
DRIVEN	<input checked="" type="checkbox"/>
BORED	<input type="checkbox"/>

IF WELL
ENTER DEPTH
FEET

34 feet

(IF OTHER THAN WELL
CHECK ONE BELOW)

b. CITY WATER	<input type="checkbox"/>
c. CISTERN	<input type="checkbox"/>
d. SPRING	<input type="checkbox"/>
e. LAKE	<input type="checkbox"/>
f. OTHER	<input type="checkbox"/>

7. SAMPLE LOCATION

a. RAW AT PUMP	<input type="checkbox"/>
b. FILTERED	<input type="checkbox"/>
c. AT TAP	<input checked="" type="checkbox"/>
d. OTHER	<input type="checkbox"/>

8. MAIL REPORT TO:

NAME: East Side Health District
STREET, RR, ETC: 5540 Beaman Rd.
CITY/STATE: East St. Louis, Ill.
TELEPHONE NBR: 618 - 874 - 4692

REMARKS:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID	UNIT
TOTAL COLI (MP)	3010	H
TOTAL COLI (MPN)	3011	H
FECAL COLI	3030	H
FECAL STREP	3090	H
NITRATE (QUAL)	1220	L
NITRATE (QUAN)	1230	L

DECLORINATED SAMPLE
NO CHEMICAL ANALYSIS

17. DATE RECEIVED AT LABORATORY:

AUG 6 1985
MO DAY YR AM PM

TIME:

18. DECHLORINATED BOTTLE?

YES
☒ NO
☐

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER
27	7	7	7	7	COLIFORM
7	7	7	7	7	FILTER COLIFORM

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM.	J = /100GM.	U = MICROGM./ML
C = DEGC	L = MG./L	X = PPM
F = DEGF	M = /ML	Y = PPS

19. DATE REPORTED
FROM LABORATORY:8-10-85
MO DAY YR ANALYST
TRE

16b. INTERPRETATION OF RESULTS:

COLIFORM

☐ SATISFACTORY
☐ UNSATISFACTORY

NITRATE

☐ SATISFACTORY
☐ UNSATISFACTORY

TURBIDITY

☐ SATISFACTORY
☐ UNSATISFACTORY

REMARKS:

LHD STAMP

**DO NOT
REMOVE
THIS
PAGE!**

RECEIVED BY DYNCORP

March 29, 1995

0511766 RF00004A